

SETUP CHART

BK MODEL 747

DYNA-JET

SOLID STATE

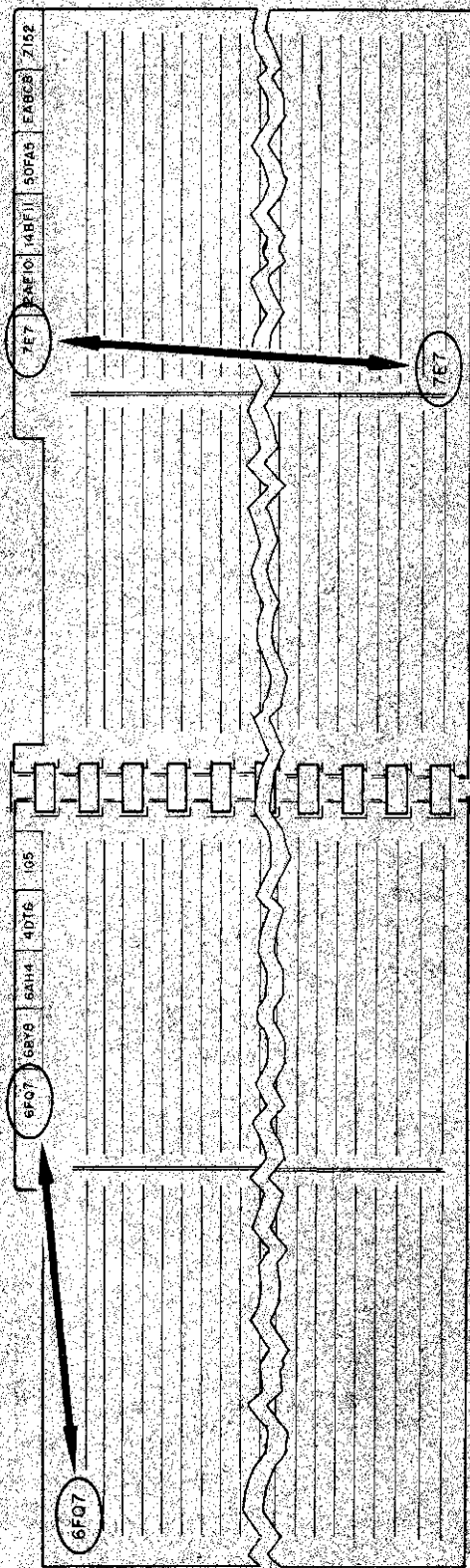
DYNAMIC MUTUAL CONDUCTANCE

TUBE TESTER



Product of DYNASCAN CORPORATION
1801 West Belle Plaine Avenue, Chicago, Illinois 60613

TABS TOWARD REAR OF BOOK
INDICATE LAST TUBE LISTED
ON TABBED PAGE



CONDENSED TESTING PROCEDURE

- | | | | |
|----|--|-----------|---|
| 1. | Set the HEATER switch for the proper heater voltage, (HT column on tube chart). | TEST 1 | Tube defective if meter reads bad on the BAD-?-GOOD scale of the meter, unless tube chart indicates otherwise. (EX. Good over 40). Some low voltage tubes use TEST 2 (Refer to tube chart Column TB (Test Button)). |
| 2. | Set the SENSITIVITY Control. (SEN column on tube chart). | | |
| 3. | Set up the program switches if the tube is to be tested in the programmed section (No's 1 through 14 on chart) | TEST 2 | Same as TEST 1 for dual tubes when tested in the Jet check section. Also used for low voltage tubes when tested in the programmed section. As above refer to tube chart column TB. |
| 4. | Plug the tube into the socket indicated in the "SKT" column of the chart. Do not plug in more than one tube at a time. Connect plate cap if designated in column "C" | | |
| 5. | Test in sequence. | LIFE TEST | Short tube life if meter reading drops 25% from TEST 1 or TEST 2 reading. |
| | SHORTS AND GRID EMISSION | NOTE 1 | Some tubes will read beyond full scale. This is normal when the tube is much better than average. |
| | The tube is defective if the shorts indicator lights, or if the meter reads in GRID EMISSION-REJECT area for either test. | | |

NOTE 2: Tubes marked NOTE 2 1AY/2, 1BH/2, 1BL/2, etc., do not have sockets but can be tested as follows: Connect 2 pieces of wire to bottom leads or screw terminals on base of tube. Insert these wires into socket #24 pin No's 1 and 8. (These pins are on each side of keyway on socket 24). Connect top cap to cap on tube using another wire if necessary and plug into jack "Y"/". Test tube per setup instructions in chart. Caution—Do not touch exposed plate leads while test button is pressed.

ADDITIONAL INFORMATION

For your convenience we have added a Foreign vs. American cross reference type guide on Pages 56 through 60. The Foreign tube types listed may be tested on the Model 747 by simply referring to the test information for the American type number.

TUBE	HT	SEN	SKT	1	2	3	4	5	6	7	8	9	10	11	12	13	14	TBC
0A2	1	99	30	E	E	F												1 Y
0A3	1	95	24	F	F													1 Y
0B2*	1	99	30	E	F													1 Y
0B3	1	75	24	F	F													1 Y
0C2	1	99	30	E	F													1 Y
0C3	1	90	24	E	F													1 Y
0D3	1	82	24	E	F													1 Y
0Z4	6	18	24	F														1 Y
	18																	1 Y
1A3	1	99	30	A	F	D												1 Y
1A5	1	89	24	Good Over 15														1 Y
1A7	1	99	24	A	F	F	E	F	B									1 Y
1AB6*	1	99	30	A	F	F	E	D	E	B								1 Y
1AC6	1	99	30	A	F	D	E	D	C	B								1 Y
1AD2*	1	71	16															1 Y
1AF4	1	99	30	A	F	F		E	B									1 Y
1AH5	1	99	30	A		D	F	E	B									1 Y
1AJ2*	1	53	16															1 Y
1AJ4	1	99	30	A	F	D		E	B									1 Y
1AN5	1	96	30	A	F	D	C	E	B									1 Y
1AU2*	52	29		F	A	B												1 Y
1AU3*	1	71	15															1 Y
1AX2*	1	64	29															1 Y
1AY2*	2	34	24	A														1 Y
				See Note 2														1 Y
1B3*	1	34	15															1 Y
1B7	1	88	24	A	F	D	E	C	B									1 Y
1BC2*	1	22	29															1 Y
																		1 Y
TUBE	HT	SEN	SKT	1	2	3	4	5	6	7	8	9	10	11	12	13	14	TBC

* INDICATES GOOD OVER 40

TUBE	HT	SEN	SKT	1	2	3	4	5	6	7	8	9	10	11	12	13	14	TBC
1F5	2	85	24		A	F	D	E	B							C	E	1
1F7	2	94	24		A	F	D	E	B							B	F	2
1F8	1	99			A	F	F		B								B	1
1FD1	1	99	30		A	F	D	E	B							A	F	2
1FD2	1	99			A	F			B								B	1
1FD9	1	99	30		A	F	D	E	B							A	F	2
1FD10	1	99			A	F			B								B	1
1G3	1	34	15															Y
1G4	1	99	24		A	F	E		B							B	F	2
1G5	2	85	24		A	F	D	E	B							C	E	1
1G6	1	99	24		A	F	E		B							A	A	1
1H2*	1	34	29				A	B										Y
1H4	2	99	24		A	F	E		B							B	F	2
1H5	1	99	24		A	F			B							A	F	2
1H6	2	91	24		A	F	E	B								B	A	1
1H7	2	90			A	F			B								B	1
1J3	1	71	15															Y
1J5	2	80	24		A	F	F	E	B							B	A	1
1J6	2	77	24		A	F	E		B							A	A	1
1K3*	1	77			A		E	F	B							A	A	1
1L4	1	85	30		A	F	D		E	B						A	C	1
1L5	1	99	30		A	F	F	E	B							C	F	2
1LA4	1	99	27		A	F	F		E	B						B	A	2
1LA6	1	99	27		A	F	C	E	D	C						A	B	1
1LB4	1	99	27		A	F	F		E	B						C	F	2
1LC6	1	90	27		A	F	D	E	B							A	C	1
1LD5	1	99	27		A	F	F		E	B								
1LE3	1	99	27		A	F			E	B								
1LG5	1	99	27		A	F	F	D	E	B						B	F	2
1LH4	1	99	27		A	F			E	B						A	F	2
1LN5	1	95																
1LN6	1	99	27		A	F	D	E	B							B	F	2
1N2*	1	34	15															Y
1N5	1	99	24		A	F	E		B							A	F	2
1N6	1	99	24		A	F	E		B									
1P5	1	99	24		A	F	D		B									
1P10	3	53	30		A	F	E	D		B						C	C	1
1P11	3	59	30		A	F	D		E	B						C	C	1
1Q5	1	80	24		A	F	D	E	B							C	C	1
1R4	2	87	27		A	F	E		B							B	F	2
1R5	1	99	30		A	F	F	E	B							A	C	1
1RK31*	1	50	29				A	B										Y
1RK41*	1	53	29				A	B										Y
1S2*	1	34	28				A	B										Y
1S4*	1	99	30		A	F	E	F	B							B	F	2
1S6*	1	99	30		A	F	F	E	B							A	F	2
1S6B	1	99			A	F			B								B	1
1S6C	1	99	24		A	F	E	F	B							A	F	2
1S6D	1	99					A	B										
1S6E	1	99	27		A	F	F		E	B						C	F	2
1S6F	1	90	27		A	F	D	E	B							A	C	1
1TUBE	HT	SEN	SKT	1	2	3	4	5	6	7	8	9	10	11	12	13	14	TBC
1TUBE	HT	SEN	SKT	1	2	3	4	5	6	7	8	9	10	11	12	13	14	TBC

* INDICATES GOOD OVER 40

TUBE	HT	SEN	SKT	1	2	3	4	5	6	7	8	9	10	11	12	13	14	TBC	TUBE	HT	SEN	SKT	1	2	3	4	5	6	7	8	9	10	11	12	13	14	TBC		
3DH3*	3	18	24	.	A	.	.	.	.	B	.	.	.	.	.	.	.	1	Y	3HM5	3	45	4	.	.	.	.	.	.	.	.	.	.	.	.	.
3DJ3*	3	18	15	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	3HM5	3	88	9	.	.	.	.	.	.	.	.	.	.	.	.	.
3DK6	3	61	1	.	.	.	.	.	.	.	.	.	.	.	.	.	.	1	3HU5	3	40	4	.	.	.	.	.	.	.	.	.	.	.	.	.
3DJ3	3	18	25	F	A	B	.	.	.	.	.	.	.	.	.	.	.	1	3HS8	3	99	29	0	D	E	A	B	C	E	.	.	.	.	A	A	1
3DR3*	3	18	24	.	A	.	.	.	.	B	.	.	.	.	.	.	.	1	Y		99		C	D	A	B	.	E	F	C	.	.	A	A	1	
3DS8*	3	18	24	A	.	.	.	.	.	B	.	.	.	.	.	.	.	1	3HH6	3	80	9	.	.	.	.	.	.	.	.	.	.	.	.	.	.
3DT6	3	91	1	.	.	.	.	.	.	.	.	.	.	.	.	.	.	1	3JC6	3	65	9	.	.	.	.	.	.	.	.	.	.	.	.	.	.
3DX4	3	53	30	F	E	A	B	C	.	.	.	.	.	.	.	.	.	1	3JD6	3	61	9	.	.	.	.	.	.	.	.	.	.	.	.	.	.
3DY4	3	61	30	F	E	A	B	C	.	.	.	.	.	.	.	.	.	1	3KF8	3	92	29	C	D	F	A	B	C	E	.	.	.	.	A	A	1
3DZ4	3	82	30	F	E	A	B	C	1	3KT6	3	52	9		
3EA5	3	80	1	.	.	.	.	.	.	.	.	.	.	.	.	.	.	1	3L35	3	58	30	A	F	D	E	.	B	.	.	.	.	.	.	.	.
3EH7	3	40	9	1	3LF4	3	60	23	A	F	F	.	E	.	B	C	F	2		
3EJ7	3	58	9	1	3MP28	3	68	2		
3ER5	3	65	30	C	E	A	B	F	1	3MR24	3	61	1		
3ES5	3	71	30	C	E	A	B	F	1	3MV7	3	65	1		
3EV5	3	57	1	1	3Q4	3	57	30	A	F	E	D	.	B	C	C	1	
3FH5	3	82	30	C	E	A	B	F	1	3Q5	2	90	24	A	F	D	E	.	B		
3FU5	3	50	30	C	E	A	B	F	1	3S4	3	53	30	A	F	E	D	.	B	C	C	1
3FS5	3	99	1	1	3V4	3	58	30	A	F	D	.	E	B	C	C	1
3FY5	3	65	30	C	E	A	B	F	1	4AB8	4	67	29	.	C	A	B	F	C	D	E	B	A	1		
3GK5	3	50	30	C	E	A	B	F	1	4AU6	4	82	1	B	A	1
3GK6	3	40	9	1	4AU8	4	56	8		
3GS8	3	95	29	C	D	F	A	B	C	E	1	4AV6	4	88	30	E	C	A	B	.	F	A	A	1	
3GU5	3	44	30	E	C	A	B	F	D	1	4AV8	4	62			
3GW5	3	50	30	F	E	A	B	C	1	4BA6	4	88			
3GY5	3	48	21	1	4BC5	4	88			
3HA5	3	48	4	1	4BA6	4	78	1		
3HE7	3	52	23	A	.	.	.	F	.	.	C	E	D	B	D	E	1	1	4BC5	4	74	1		
		10		A	F	C	1	1	4BC8	4	53	7		
3HF5	3	57	21	1	1			53				
3HK5	3	45	4	1	1							
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[illegible]

TUBE	HT	SEN	SKT	1	2	3	4	5	6	7	8	9	10	11	12	13	14	TBC
4HS8	4	99	29	C	D	F	A	B	C	E	C					A	A	1
4HT6	4	60	9	C	D	F	A	B	C	E	F	C				A	A	1
4JD6	4	65	9															1
4JD8	4	61	9															1
4JH8	4	64	1															1
4JK6	4	61	1															1
4JL6	4	23	1															1
4JW8	4	80	6															1
4KE8	4	88	6															1
4KF8	4	92	29	C	D	F	A	B	C	E	C					A	A	1
4KN8	4	41	29	F	E	C	A	B								B	F	2
4KT6	4	52	9															1
4LJ8	4	72	10															1
4M06	4	52	1															2
4MK8	4	98	29	C	D	F	A	B	C	E	C					A	A	1
4MP12	4	60	1															1
4MP26	4	56	2															1
4RH2	4	53	7															1
4RH8	4	41	29	F	E	C	A	B								B	F	2
4RHH15	4	53	7															1
5AF4	5	55	30	F	E	A	B	C								B	F	2

TUBE	HT	SEN	SKT	1	2	3	4	5	6	7	8	9	10	11	12	13	14	TBC
5BK7	5	55	7															1
5BQ5	5	40	29	E	C	A	B	F	D									2
5BQ7	5	54	7															1
5BR8	5	54	7															2
5BS8	5	72	10															1
5BT8	5	60	29	A	B	F	D	E	C									2
5BW8	5	72	29	F	C	A	B											1
5BZ7	5	53	7															2
5C08	5	84	10															1
5CM6	5	64	29	D	A	B	E	C	F									2
5CM8	5	63	29	E	C	A	B	F	D									1
5C08	5	72	6															2
5CR8	5	74	29	E	C	A	B	F	D	C								1
5CU4	5	11	24	C	A	F												2
5CZ5	5	60	29	D	E	A	B	C	F									1
TUBE	HT	SEN	SKT	1	2	3	4	5	6	7	8	9	10	11	12	13	14	TBC
5DB4	5	16	17															1
5DH8	5	61	10															2
5DJ4	5	16	17															1
5EA8	5	73	6															2
5EH8	5	71	8															1
5ES8	5	30	7															2
5EU8	5	75	29	F	A	B	E	C	D									1
5EW6	5	77	1															2
5F07	5	68	10															1
5F08	5	85	10															2
5G08	5	75																1
5G17	5	63	29	C	F	D	A	B	F	D								2
5G20	5	51		C	C	A	B	F	E									1
5GM6	5	84	1															2
5GS7	5	75	10															1
5GX6	5	85	1															2
5GX7	5	75	29	C	F	A	B	F	D									1
5GZ5	5	55		C	A	B	F	E										2

TUBE	HT	SEN	SKT	1	2	3	4	5	6	7	8	9	10	11	12	13	14	T8	C
5HA7	5	91	23	A	C														
5HB7	5	74	29	C	E	A	B	F	D										
5HC7	5	91	23	A	C														
5HG8	5	75	29	C	E	C	A	B											
5HZ6	5	83	1																
5J6	5	60	30	F	A	B	E	C											
5JK6	5	61	1																
5JL6	5	23	1																
5JW8	5	80	6																
5KD8	5	68	6																
5KE8	5	88	6																
5KZ8	5	73	29	F	C	A	B	E	D										
5L8	5	72	10																
5MB8	5	80	10																
5MR8	5	64	23	A	F	E	D	C											
5MH8	5	53	30	F	A	B	E	C											
5MK9	5	14	30																
5MQ8	5	66	1																
5N1039A	5	68	1																
TUBE	HT	SEN	SKT	1	2	3	4	5	6	7	8	9	10	11	12	13	14	T8	C

TUBE	HT	SEN	SKT	1	2	3	4	5	6	7	8	9	10	11	12	13	14	TBC	TUBE	HT	SEN	SKT	1	2	3	4	5	6	7	8	9	10	11	12	13	14	TBC				
5W4	5	24	17	.	.	.	.	.	.	.	.	.	.	.	.	.	.	1	6AD7	6	95	24	.	A	F	D	E	.	B	C	.	.	.	.	C	A	1		
5X4	5	16	24	.	F	.	.	.	A	B	.	.	.	.	.	.	C	1	6AD10	6	83	19	.	.	.	.	.	.	.	.	.	.	.	.	.	D	1		
5X8	5	83	8	.	.	.	.	.	.	.	.	.	.	.	.	.	.	1	6AF3	6	12	29	.	.	.	A	B	.	.	F	.	.	.	.	.	C	1	K	
5X9	5	48	28	.	C	E	C	A	B	F	D	.	.	.	.	.	B	A	1	6AF4	6	55	30	F	E	A	B	C	.	.	.	.	.	.	.	B	F	2	
5Y3	5	24	17	.	.	.	.	.	.	.	.	.	.	.	.	.	.	1	6AF9	6	24	28	.	C	.	A	B	C	E	D	F	.	.	.	B	A	1		
5Y4	5	32	24	.	F	.	.	.	A	B	.	.	.	.	.	.	C	1	6AF10	6	42	23	A	C	E	D	F	C	.	.	.	.	.	.	8	B	A	1	
5Z4	5	24	17	.	.	.	.	.	.	.	.	.	.	.	.	.	.	1	6AF11	6	48	23	A	F	.	.	.	.	.	C	D	E	B	B	A	1	.	.	
5Z10	5	16	17	.	.	.	.	.	.	.	.	.	.	.	.	.	.	2	6AG8	6	80	1	.	.	.	.	.	.	.	.	.	.	.	.	.	.	B	A	1
6A8	6	95	24	.	A	F	D	E	C	B	C	.	.	.	.	.	B	A	1	6AG7	6	38	24	C	A	C	E	C	D	B	F	.	.	.	.	.	B	A	1
6AB4	6	83	30	F	A	B	E	C	.	.	.	.	.	.	.	.	.	1	6AG9	6	32	23	A	F	C	.	.	.	C	D	E	B	B	A	1	.	.		
6AB7	6	74	24	C	A	C	E	C	D	B	F	B	A	1	6AG11	6	59	23	A	.	.	E	C	F	.	.	.	F	E	C	.	8	B	A	1
6AB9	6	67	29	.	C	A	B	E	C	D	E	B	A	1	6AG11	6	59	23	A	.	.	C	E	F	B	B	A	1	
6AB9	6	54	28	F	D	E	C	A	B	B	A	1	6AH4	6	75	24	E	A	.	E	.	B	C	D	A	1	
6AC5	6	99	24	A	F	.	.	.	F	D	E	C	.	.	.	.	.	B	A	1	6AH6	6	58	1	.	.	.	.	.	.	.	.	.	.	.	.	.	.	1
6AC7	6	60	24	C	A	C	E	C	D	B	F	B	A	1	6AH7	6	92	24	E	C	F	.	.	A	B	C	A	1
6AC9	6	65	23	A	.	.	.	.	C	E	D	F	B	B	A	1	.	.	1	6AH9	6	25	23	A	.	E	.	E	C	D	C	F	B	B	A	1	.	.	
6AC10	6	70	23	A	F	C	B	A	1	6AJ4	6	46	29	F	C	.	F	.	A	B	B	A	1	
6AC10	6	70	23	A	F	C	B	A	1	6AJ5	6	93	30	E	C	A	B	F	F	B	C	1	
6AC10	6	70	23	A	F	C	B	A	1	6AJ7	6	80	24	C	A	C	E	C	D	B	F	B	A	1	
6AC10	6	70	23	A	F	C	.	.	.	.	.	.	.	.	.	.	.	B	A	1	6AJ8	6	85	29	D	E	C	A	B	F	E	.	.	.	.	.	B	A	1
6AC10	6	70	23	A	F	C	.	.	.	.	.	.	.	.	.	.	.	B	A	1	6AJ8	6	88	29	D	E	C	A	B	F	E	.	.	.	.	.	B	A	1
6AC10	6	70	23	A	F	C	.	.	.	.	.	.	.	.	.	.	.	B	A	1	6AJ8	6	88	29	D	E	C	A	B	F	E	.	.	.	.	.	B	A	1
6AC10	6	70	23	A	F	C	.	.	.	.	.	.	.	.	.	.	.	B	A	1	6AJ8	6	88	29	D	E	C	A	B	F	E	.	.	.	.	.	B	A	1
6AC10	6	70	23	A	F	C	.	.	.	.	.	.	.	.	.	.	.	B	A	1	6AJ8	6	88	29	D	E	C	A	B	F	E	.	.	.	.	.	B	A	1
6AC10	6	70	23	A	F	C	.	.	.	.	.	.	.	.	.	.	.	B	A	1	6AJ8	6	88	29	D	E	C	A	B	F	E	.	.	.	.	.	B	A	1
6AC10	6	70	23	A	F	C	.	.	.	.	.	.	.	.	.	.	.	B	A	1	6AJ8	6	88	29	D	E	C	A	B	F	E	.	.	.	.	.	B	A	1
6AC10	6	70	23	A	F	C	.	.	.	.	.	.	.	.	.	.	.	B	A	1	6AJ8	6	88	29	D	E	C	A	B	F	E	.	.	.	.	.	B	A	1
6AC10	6	70	23	A	F	C	.	.	.	.	.	.	.	.	.	.	.	B	A	1	6AJ8	6	88	29	D	E	C	A	B	F	E	.	.	.	.	.	B	A	1
6AC10	6	70	23	A	F	C	.	.	.	.	.	.	.	.	.	.	.	B	A	1	6AJ8	6	88	29	D	E	C	A	B	F	E	.	.	.	.	.	B	A	1
6AC10	6	70	23	A	F	C	.	.	.	.	.	.	.	.	.	.	.	B	A	1	6AJ8	6	88	29	D	E	C	A	B	F	E	.	.	.	.	.	B	A	1
6AC10	6	70	23	A	F	C	.	.	.	.	.	.	.	.	.	.	.	B	A	1	6AJ8	6	88	29	D	E	C	A	B	F	E	.	.	.	.	.	B	A	1
6AC10	6	70	23	A	F	C	.	.	.	.	.	.	.	.	.	.	.	B	A	1	6AJ8	6	88	29	D	E	C	A	B	F	E	.	.	.	.	.	B	A	1
6AC10	6	70	23	A	F	C	.	.	.	.	.	.	.	.	.	.	.	B	A	1	6AJ8	6	88	29	D	E	C	A	B	F	E	.	.	.	.	.	B	A	1
6AC10	6	70	23	A	F	C	.	.	.	.	.	.	.	.	.	.	.	B	A	1	6AJ8	6	88	29	D	E	C	A	B	F	E	.	.	.	.	.	B	A	1
6AC10	6	70	23	A	F	C	.	.	.	.	.	.	.	.	.	.	.	B	A	1	6AJ8	6	88	29	D	E	C	A	B	F	E	.	.	.	.	.	B	A	1
6AC10	6	70	23	A	F	C	.	.	.	.	.	.	.	.	.	.	.	B	A	1	6AJ8	6	88	29	D	E	C	A	B	F	E	.	.	.	.	.	B	A	1
6AC10	6	70	23	A	F	C	.	.	.	.	.	.	.	.	.	.	.	B	A	1	6AJ8	6	88	29	D	E	C	A	B	F	E	.	.	.	.	.	B	A	1
6AC10	6	70	23	A	F	C	.	.	.	.	.	.	.	.	.	.	.	B	A	1	6AJ8	6	88	29	D	E	C	A	B	F	E	.	.	.	.	.	B	A	1
6AC10	6	70	23	A	F	C	.	.	.	.	.	.	.	.	.	.	.	B	A	1	6AJ8	6	88	29	D	E	C	A	B	F	E	.	.	.	.	.	B	A	1
6AC10	6	70	23	A	F	C	.	.	.	.	.	.	.	.	.	.	.	B	A	1	6AJ8	6	88	29	D	E	C	A	B	F	E	.	.	.	.	.	B	A	1
6AC10	6	70	23	A	F	C	.	.	.	.	.	.	.	.	.	.	.	B	A	1	6AJ8	6	88	29	D	E	C	A	B	F	E	.	.	.	.	.	B	A	1
6AC10	6	70	23	A	F	C	.	.	.	.	.	.	.	.	.	.	.	B	A	1	6AJ8	6	88	29	D	E	C	A	B	F	E	.	.	.	.	.	B	A	1
6AC10	6	70	23	A	F	C	.	.	.	.	.	.	.	.	.	.	.	B	A	1	6AJ8	6	88	29	D	E	C	A	B	F	E	.	.	.	.	.	B	A	1
6AC10	6	70	23	A	F	C	.	.	.	.	.	.	.	.	.	.	.	B	A	1	6AJ8	6	88	29	D	E	C	A	B	F	E	.	.	.	.	.	B	A	1
6AC10	6	70	23	A	F	C	B	A	1	6AJ8	6	88	29	D	E	C	A	B	F	E	B	A	1		
6AC10	6	70	23	A	F	C	B	A	1	6AJ8	6	88	29	D	E	C	A	B	F	E	B	A	1		
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6AC10	6	70	23	A	F	C	B	A	1	6AJ8	6	88	29	D	E	C	A	B	F	E	B	A	1		
6AC10	6	70	23	A	F	C	B	A	1	6AJ8	6	88	29	D	E	C	A	B	F	E	B	A	1		
6AC10	6	70	23	A	F	C	.	.	.	.	.	.	.	.	.	.	.	B	A	1	6AJ8	6	88	29	D	E	C	A	B	F	E	.	.	.	.	.	B	A	1
6AC10	6	70	23	A	F	C	.	.	.	.	.	.	.	.	.	.	.	B	A	1	6AJ8	6	88	29	D	E	C	A	B	F	E	.	.	.	.	.	B	A	1
6AC10	6	70	23	A	F	C	.	.	.	.	.	.	.	.	.	.	.	B	A	1	6AJ8	6	88	29	D	E	C	A	B	F	E	.	.	.	.	.	B	A	1
6AC10	6	70	23	A	F	C	.	.	.	.	.	.	.	.	.	.	.	B	A	1	6AJ8	6	88	29	D	E	C	A	B	F	E	.	.	.	.	.	B	A	1
6AC10	6	70	23	A	F	C	.	.	.	.	.	.	.	.	.	.	.	B	A	1	6AJ8	6	88	29	D	E	C	A	B	F	E	.	.	.	.	.	B	A	1
6AC10	6	70	23	A	F	C	.	.	.	.	.	.	.	.	.	.	.	B	A	1	6AJ8	6	88	29	D	E	C	A	B	F	E	.	.	.	.	.	B	A	1
6AC10	6	70	23	A	F	C	.	.	.	.	.	.	.	.	.	.	.	B	A	1	6AJ8	6	88	29	D	E	C	A	B	F	E	.	.	.	.	.	B	A	1
6AC10	6	70	23	A	F	C	.	.	.	.	.	.	.	.	.	.	.	B	A	1	6AJ8	6	88	29	D	E	C	A	B	F	E	.	.	.	.	.	B	A	1
6AC10	6	70	23	A	F	C	B	A	1	6AJ8	6	88	29	D	E	C	A	B	F	E	B	A	1		
6AC10																																									

TUBE	HT	SEN	SKT	1	2	3	4	5	6	7	8	9	10	11	12	13	14	TBC	TUBE	HT	SEN	SKT	1	2	3	4	5	6	7	8	9	10	11	12	13	14	TBC		
6AT6	6	85	30	E	C	A	B			F						A	A	1	6AX7	6	89	29	F	E	C	A	B								A	A	1		
		88		C	A	B	E									B					89			A	B	E	C							A	A	1			
6AT8	6	88		C	A	B	F									B	1		6AX8	6	73	6													1				
	6	77	10																		84														2				
6AU4	6	83															2		6AY3	6	14	20													1				
	6	10	38														1		6AY4	6	80	29	A		C	E	F							B	A	1			
6AU5	6	73	24	E	A	C	F	B	D							D	E	1			80		A					F	E	C			B	A	1				
6AU6	6	82	1														1				85		A	C	E									B	1				
6AU7	6	75	7														1				65		A							F	C	B		B	1				
		75															2		6AZ8	6	71	29	F	D	C	A	B	E							B	A	1		
6AU8	6	56	8														1				85				A	B				C	F	E			C	A	1		
		62															2		6B4	6	14	24	A	F	E										D	D	1		
6AV5	6	67	24	E	A	C	F	B	D							D	E	1	6B6	6	92	24	A	F					B	C					A	A	1		
6AV6	6	91	30	F	C	A	B									A	A	1																		A	A	1	
		88		C	A	B	F										B	1			73		A	F					B	C						B	1		
		88		C	A	B	E										B	1			73		A	F					B	C						B	1		
6AV11	6	72	23	A	F	C										E	B	A	1	6B8	6	99	24	A	F			D	B	C						A	A	1	
		72		A		F	C	E								B	B	A	1		82		A	F					B	C						B	1		
		72		A		C										E	F	B	A	1		82		A	F				B	C						B	1		
6AW7	6	90	24	C	E											A	A	1	6B10	6	82	23	A	C	E	F											C	A	1
		58		C		F											B	1			92		A				E	F	C							B	C	A	1
		58		F	C												B	1			60		A							F	D					B	1		
6AW8	6	44	8														1				60		A							C	F	B				B	1		
		78															2		6B39	6	62	30	F	A	B	C											B	1	
6AX2	6	88	29														1	Y			62		C	A	B												B	1	
6AX3	6	13	12														1		6B31	6	62	30	F	A	B	C											B	1	
6AX4	6	13	18														1				62		C	A	B												B	1	
6AX5	6	22	17														1		6BA3	6	10	20															1		
		22															2		6BA6	6	78	1															1		
6AX6	6	12	24														1		6BA7	6	89	29	D	E	C	A	B	C									B	A	1
		12															1				6																1		
																			6BA8	6	53	8															2		
																					59																		
TUBE	HT	SEN	SKT	1	2	3	4	5	6	7	8	9	10	11	12	13	14	TBC	TUBE	HT	SEN	SKT	1	2	3	4	5	6	7	8	9	10	11	12	13	14	TBC		

TUBE	HT	SEN	SKT	1	2	3	4	5	6	7	8	9	10	11	12	13	14	TB C	TUBE	HT	SEN	SKT	1	2	3	4	5	6	7	8	9	10	11	12	13	14	TB C
6BA11	6	92	23	A	F	D	E	C	F	C	C	.	.	.	B	B	A	1	6BF8	6	88	29	F	.	.	A	B	C	.	.	.	.	.	.	B	1
6B-B14	6	42	26	E	C	A	B	D	.	.	.	.	.	.	C	E	1	Z		88		88		F	A	B	C	.	.	.	.	.	.	B	1	
6BD4	6	32	20	F	E	A	B	C	.	.	.	.	.	.	B	A	1			88		88		F	A	B	C	.	.	.	.	.	.	B	1	
6BC5	6	74	1	.	.	.	.	.	.	.	.	.	.	.	.	.	1			88		88		F	A	B	C	.	.	.	.	.	.	B	1	
6BC7	6	54	29	G	F	A	B	.	.	.	.	.	.	.	B	1			6BF11	6	53	19	.	.	.	A	B	C	.	.	.	.	.	.	B	1
	6	54		.	.	A	B	.	.	.	.	.	.	.	B	1				99		99		.	.	.	.	.	.	.	.	.	.	.	1	
6BC8	6	53	7	.	.	.	.	.	.	.	.	.	.	.	.	1			6BG6	6	66	24	A	C	E	C	B	.	.	.	.	.	.	C	E	1
	6	53		.	.	.	.	.	.	.	.	.	.	.	.	2			6BH3	6	10	20	.	.	.	.	.	.	.	.	.	.	.	.	.	1
6BC32	6	91	30	E	C	A	B	.	.	F	.	.	.	.	A	A	1		6BH6	6	89	1	.	.	.	.	.	.	.	.	.	.	.	.	.	1
	6	88		G	A	B	F	.	.	.	.	.	.	.	B	1			6BH8	6	59	30	.	.	.	.	.	.	.	.	.	.	.	.	.	1
	6	88		C	A	B	.	F	.	.	.	.	.	.	B	1				54		54		.	.	.	.	.	.	.	.	.	.	.	2	
6BD4	6	85	24	G	A	B	.	.	.	.	.	.	.	.	F	A	1	P	6BH11	6	66	23	A	.	.	E	D	F	C	B	.	B	A	1		
6BD5	6	59	24	E	A	C	.	F	.	B	D	.	.	.	C	A	1			51		51		A	C	F	E	.	.	.	.	.	.	B	A	1
6BD6	6	85	1	.	.	.	.	.	.	.	.	.	.	.	.	1				51		51		A	.	.	C	F	.	.	.	.	.	B	A	1
6BD7	6	79	29	F	E	C	A	B	.	.	.	.	.	.	A	A	1		6BJ3	6	9	12	.	.	.	.	.	.	.	.	.	.	.	.	.	1
	6	83		C	A	B	.	.	.	.	.	.	.	.	B	1			6BJ6	6	81	1	.	.	.	.	.	.	.	.	.	.	.	.	.	1
	6	83		C	A	B	B	1			6BJ7	6	62	29	C	F	A	B	B	1
6BD11	6	50	23	A	F	.	.	.	.	.	.	.	.	.	D	E	B	B	A	1	62		62		A	B	F	.	.	.	.	.	.	.	B	1
	6	62		A	.	.	C	E	.	.	F	.	.	.	B	B	A	1			62		62		A	B	.	F	C	.	.	.	.	B	1	
	6	66		A	E	F	.	.	.	C	.	.	.	.	B	B	A	1		6BJ8	6	77	29	.	.	A	B	.	F	E	C	.	.	.	B	1
6BE3	6	12	12	.	.	.	.	.	.	.	.	.	.	.	.	1				62		62		F	C	A	B					

TUBE	HT	SEN	SKT	1	2	3	4	5	6	7	8	9	10	11	12	13	14	TBC	TUBE	HT	SEN	SKT	1	2	3	4	5	6	7	8	9	10	11	12	13	14	TBC					
6DE6	6	61	1															1	6DT5	6	51	29	D	E	A	B	C	F							B	E	1					
6DE7	6	61	29	F	E	A	B											D	6DT6	6	91	1																				
		88			A	B	F	E	C									C	6DT8	6	71	7														1						
6DE8	6	38	14																																		2					
6DJ8	6	50	29	F	E	C	A	B										B	6DU3	6	11	12														1						
	6	50			A	B	F	E	C									B	6DW4	6	13	20																				
6DK3	6	10	20																6DW5	6	30	29	D		A	B	E	C	F							B	A	1				
6DK6	6	61	1																6DX4	6	53	30	F	E	A	B	C										B	E	2			
6DL3	6	13	25	F	A	B													6DX8	6	57	29			A	B	F	C	E	D							B	A	1			
6DL4	6	50	29	F	E	C	A	B										B		60			F	E	C	A	B										B	A	1			
6DL5	6	88	2																6DV4	6	61	30	F	E	A	B	E											B	E	2		
6DM4	6	11	18															1	6DV5	6	52	28	E	F	C	A	B	E	D										B	A	1	
6DN3	6	10	20																6DV7	6	72	24	E	A	F	D													C	A	1	
6DN6	6	47	24	A	C	E	C	B	D									B		68			A	D	E	F	B	C										C	A	1		
6DN7	6	59	24	E	F	C				A	B							C	6DZ4	6	82	30	F	E	A	B	C												C	F	2	
	6	93			E	F	C	A	B									C	6DZ7	6	56	24	E	A	F	D	C	B	C										B	A	1	
6DO3	6	11	12																	56			C	A	C	D	E	F	B	C								B	A	1		
6DO4	6	11	18																6DZ8	6	55	28			C	E	A	B	F	D									C	A	1	
6DO5	6	55	24	A	C	E	C	B	D									C	6EA4	6	88	28	A																A	F	2	
6DO6	6	65	24	A	D	E				B	C							D																					B	F	A	1
6DR4	6	89	30	F	A	B	E	C										A	6EA5	6	80	1																		1		
6DR7	6	64	28	F	E	A	B	E	C									D	6EA7	6	59	24	E	F	C				A	B									D	A	1	
	94				A	B	F	E	C									B		92									E	F	C	A	B					B	A	1		
6DR8	6	73	29	D	E	C	A	B	F									B	6EA8	6	73	6																				
	88				C	A	B			F								B		56																			2			
6DS4	6	90	22	F	E													B	6EB6	6	70	30	C																B	E	1	
6DS5	6	76	2																6EB8	6	35	8																	B	E	1	
6DS8	6	84	29	D	E	C	A	B	F									B		92																			2			
	86				C	A	B			F	E							B	6EC4	6	40	26	F	A	B															C	A	1
6DT3	6	11	12																6ED4	6	80	26	C					A	B											F	D	1
6DT4	6	11	18																6EF4	6	87	23	A					C	E											B	E	1
TUBE	HT	SEN	SKT	1	2	3	4	5	6	7	8	9	10	11	12	13	14	TBC	TUBE	HT	SEN	SKT	1	2	3	4	5	6	7	8	9	10	11	12	13	14	TBC					

TUBE	HT	SENS	SKT	1	2	3	4	5	6	7	8	9	10	11	12	13	14	TB	C	
6EF6	6	65	24	A	F	D	E			B	C					C	E	1		
6EF7	6	38	23	A	F	D	E			B	C					B	A	1	P	
6EH5	6	57	3															1		
6EH7	6	40	9															1		
6EH8	6	71	8															1		
6EJ4	6	85	23	A					C	E						B	F	A	1	P
6EJ7	6	58	9															1		
6EL4	6	85	24	C	A				E		B						F	A	1	P
6EL7	6	40	9															1		
6EM5	6	53	29	D	E	A	B			C	F						B	E	1	
6EM7	6	57	24	E	F	D				A	B						D	A	1	
6EN4	6	85	24	C	A				E		B						B	A	1	P
6ED7	6	88	29	C	E	C	A	B	D	F							B	A	1	
6ER5	6	65	30	C	E	A	B	F									B	A	1	
6ES5	6	71	30	C	E	A	B	F									B	A	1	
6ES8	6	30	7															1		
6ET6	6	45	30	E	C	A	B	F	F	C							B	C	1	
6ET7	6	27	29	A	B	D				E	D	F					B	A	1	
6EU7	6	89	29	A	B				C	E	F						A	A	1	
6EU8	6	75	29	F			A	B			E	C	D				B	A	1	
6EV5	6	57	1															1		
6EV7	6	78	7															1		
6EW6	6	77	1															1		
TUBE	HT	SENS	SKT	1	2	3	4	5	6	7	8	9	10	11	12	13	14	TB	C	

TUBE	HT SENS	SKT	1	2	3	4	5	6	7	8	9	10	11	12	13	14	TBC	TUBE	HT SENS	SKT	1	2	3	4	5	6	7	8	9	10	11	12	13	14	TBC
6HJ7	6	75 29	C	E	C	A	B	F	D	.	.	.	.	B	A	1	6J8	6	93 24	A	F	D	E	.	B	C	.	.	.	.	B	A	1	6
6HJ8	6	60 29	C	E	C	A	B	F	D	.	.	.	.	C	A	1	6J9	6	88 29	A	F	D	E	.	B	C	.	.	.	.	B	A	1	6
6HK5	6	70 29	C	E	D	A	B	E	.	C	.	.	.	B	A	1	6J10	6	67 29	F	E	C	A	B	B	A	1	6
6HL5	6	60 4	.	.	.	.	.	.	.	.	.	.	.	.	.	1	6J11	6	67 29	A	B	F	.	A	B	F	.	E	C	.	B	A	1	6
6HL8	6	45 4	.	.	.	.	.	.	.	.	.	.	.	.	.	1	6J12	6	67 29	A	B	F	.	A	B	F	.	C	.	B	A	1	6	
6HM5	6	44 29	E	C	A	B	F	D	.	C	A	1	.	.	.	2	6J13	6	67 29	A	B	F	.	A	B	F	.	C	.	B	A	1	6		
6HM6	6	60 6	.	.	.	.	.	.	.	.	.	.	.	.	.	1	6J14	6	73 28	A	D	C	.	.	F	E	B	C	A	1	6	1	6	
6HO5	6	60 6	.	.	.	.	.	.	.	.	.	.	.	.	.	1	6J15	6	73 28	A	D	C	.	.	F	E	B	C	A	1	6	1	6	
6HO6	6	60 6	.	.	.	.	.	.	.	.	.	.	.	.	.	1	6J16	6	73 28	A	D	C	.	.	F	E	B	C	A	1	6	1	6	
6HR5	6	60 6	.	.	.	.	.	.	.	.	.	.	.	.	.	1	6J17	6	95	A	.	F	B	D	E	C	.	.	B	A	1	6	1	6
6HS5	6	60 6	.	.	.	.	.	.	.	.	.	.	.	.	.	1	6J18	6	95	A	.	F	B	D	E	C	.	.	B	A	1	6	1	6
6HS6	6	60 6	.	.	.	.	.	.	.	.	.	.	.	.	.	1	6J19	6	95	A	.	F	B	D	E	C	.	.	B	A	1	6	1	6
6HS8	6	60 6	.	.	.	.	.	.	.	.	.	.	.	.	.	1	6J20	6	95	A	.	F	B	D	E	C	.	.	B	A	1	6	1	6
6HT6	6	60 6	.	.	.	.	.	.	.	.	.	.	.	.	.	1	6J21	6	95	A	.	F	B	D	E	C	.	.	B	A	1	6	1	6
6HU8	6	60 6	.	.	.	.	.	.	.	.	.	.	.	.	.	1	6J22	6	95	A	.	F	B	D	E	C	.	.	B	A	1	6	1	6
6HV5	6	60 6	.	.	.	.	.	.	.	.	.	.	.	.	.	1	6J23	6	95	A	.	F	B	D	E	C	.	.	B	A	1	6	1	6
6HW8	6	60 6	.	.	.	.	.	.	.	.	.	.	.	.	.	1	6J24	6	95	A	.	F	B	D	E	C	.	.	B	A	1	6	1	6
6HZ6	6	60 6	.	.	.	.	.	.	.	.	.	.	.	.	.	1	6J25	6	95	A	.	F	B	D	E	C	.	.	B	A	1	6	1	6
6HZ8	6	60 6	.	.	.	.	.	.	.	.	.	.	.	.	.	1	6J26	6	95	A	.	F	B	D	E	C	.	.	B	A	1	6	1	6
6J4	6	60 6	.	.	.	.	.	.	.	.	.	.	.	.	.	1	6J27	6	95	A	.	F	B	D	E	C	.	.	B	A	1	6	1	6
6J5	6	60 6	.	.	.	.	.	.	.	.	.	.	.	.	.	1	6J28	6	95	A	.	F	B	D	E	C	.	.	B	A	1	6	1	6
6J6	6	60 6	.	.	.	.	.	.	.	.	.	.	.	.	.	1	6J29	6	95	A	.	F	B	D	E	C	.	.	B	A	1	6	1	6
6J7	6	60 6	.	.	.	.	.	.	.	.	.	.	.	.	.	1	6J30	6	95	A	.	F	B	D	E	C	.	.	B	A	1	6	1	6
6J8	6	60 6	.	.	.	.	.	.	.	.	.	.	.	.	.	1	6J31	6	95	A	.	F	B	D	E	C	.	.	B	A	1	6	1	6
6J9	6	60 6	.	.	.	.	.	.	.	.	.	.	.	.	.	1	6J32	6	95	A	.	F	B	D	E	C	.	.	B	A	1	6	1	6
6J10	6	60 6	.	.	.	.	.	.	.	.	.	.	.	.	.	1	6J33	6	95	A	.	F	B	D	E	C	.	.	B	A	1	6	1	6
6J11	6	60 6	.	.	.	.	.	.	.	.	.	.	.	.	.	1	6J34	6	95	A	.	F	B	D	E	C	.	.	B	A	1	6	1	6
6J12	6	60 6	.	.	.	.	.	.	.	.	.	.	.	.	.	1	6J35	6	95	A	.	F	B	D	E	C	.	.	B	A	1	6	1	6
6J13	6	60 6	.	.	.	.	.	.	.	.	.	.	.	.	.	1	6J36	6	95	A	.	F	B	D	E	C	.	.	B	A	1	6	1	6
6J14	6	60 6	.	.	.	.	.	.	.	.	.	.	.	.	.	1	6J37	6	95	A	.	F	B	D	E	C	.	.	B	A	1	6	1	6
6J15	6	60 6	.	.	.	.	.	.	.	.	.	.	.	.	.	1	6J38	6	95	A	.	F	B	D	E	C	.	.	B	A	1	6	1	6
6J16	6	60 6	.	.	.	.	.	.	.	.	.	.	.	.	.	1	6J39	6	95	A	.	F	B	D	E	C	.	.	B	A	1	6	1	6
6J17	6	60 6	.	.	.	.	.	.	.	.	.	.	.	.	.	1	6J40	6	95	A	.	F	B	D	E	C	.	.	B	A	1	6	1	6
6J18	6	60 6	.	.	.	.	.	.	.	.	.	.	.	.	.	1	6J41	6	95	A	.	F	B	D	E	C	.	.	B	A	1	6	1	6
6J19	6	60 6	.	.	.	.	.	.	.	.	.	.	.	.	.	1	6J42	6	95	A	.	F	B	D	E	C	.	.	B	A	1	6	1	6
6J20	6	60 6	.	.	.	.	.	.	.	.	.	.	.	.	.	1	6J43	6	95	A	.	F	B	D	E	C	.	.	B	A	1	6	1	6
6J21	6	60 6	.	.	.	.	.	.	.	.	.	.	.	.	.	1	6J44	6	95	A	.	F	B	D	E	C	.	.	B	A	1	6	1	6
6J22	6	60 6	.	.	.	.	.	.	.	.	.	.	.	.	.	1	6J45	6	95	A	.	F	B	D	E	C	.	.	B	A	1	6	1	6
6J23	6	60 6	.	.	.	.	.	.	.	.	.	.	.	.	.	1	6J46	6	95	A	.	F	B	D	E	C	.	.	B	A	1	6	1	6
6J24	6	60 6	.	.	.	.	.	.	.	.	.	.	.	.	.	1	6J47	6	95	A	.	F	B	D	E	C	.	.	B	A	1	6	1	6
6J25	6	60 6	.	.	.	.	.	.	.	.	.	.	.	.	.	1	6J48	6	95	A	.	F	B	D	E	C	.	.	B	A	1	6	1	6
6J26	6	60 6	.	.	.	.	.	.	.	.	.	.	.	.	.	1	6J49	6	95	A	.	F	B	D	E	C	.	.	B	A	1	6	1	6
6J27	6	60 6	.	.	.	.	.	.	.	.	.	.	.	.	.	1	6J50	6	95	A	.	F	B	D	E	C	.	.	B	A	1	6	1	6
6J28	6	60 6	.	.	.	.	.	.	.	.	.	.	.	.	.	1	6J51	6	95	A	.	F	B	D	E	C	.	.	B	A	1	6	1	6
6J29	6	60 6	.	.	.	.	.	.	.	.	.	.	.	.	.	1	6J52	6	95	A	.	F	B	D	E	C	.	.	B	A	1	6	1	6
6J30	6	60 6	.	.	.	.	.	.	.	.	.	.	.	.	.	1	6J53	6	95	A	.	F	B	D	E	C	.	.	B	A	1	6	1	6
6J31	6	60 6	.	.	.	.	.	.	.	.	.	.	.	.	.	1	6J54	6	95	A	.	F	B	D	E	C	.	.	B	A	1	6	1	6
6J32	6	60 6	.	.	.	.	.	.	.	.	.	.	.	.	.	1	6J55	6	95	A	.	F	B	D	E	C	.	.	B	A	1	6	1	6
6J33	6	60 6	.	.	.	.	.	.	.	.	.	.	.	.	.	1	6J56	6	95	A	.	F	B	D	E	C	.	.	B	A	1	6	1	6
6J34	6	60 6	.	.	.	.	.	.	.	.	.	.	.	.	.	1	6J57	6	95	A	.	F	B	D	E	C	.	.	B	A	1	6	1	6
6J35	6	60 6	.	.	.	.	.	.	.	.	.	.	.	.	.	1	6J58	6	95	A	.	F	B	D	E	C	.	.	B	A	1	6	1	6
6J36	6	60 6	.	.	.	.	.	.	.	.	.	.	.	.	.	1	6J59	6	95	A	.	F	B	D	E	C	.	.	B	A	1	6	1	6
6J37	6	60 6	.	.	.	.	.	.	.	.	.	.	.	.	.	1	6J60	6	95	A	.	F	B	D	E	C	.	.	B	A	1	6	1	6
6J38	6	60 6	.	.	.	.	.	.	.	.	.	.	.	.	.	1	6J61	6	95	A	.	F	B	D	E	C	.	.	B	A	1	6	1	6
6J39	6	60 6	.	.	.	.	.	.	.	.	.	.	.	.	.	1	6J62	6	95	A	.	F	B	D	E	C	.	.	B	A	1	6	1	6
6J40	6	60 6	.	.	.	.	.	.	.	.	.	.	.	.	.	1	6J63	6	95	A	.	F	B	D	E	C	.	.	B	A	1	6	1	6
6J41	6	60 6	.	.	.	.	.	.	.	.	.	.	.	.	.	1	6J64	6	95	A	.	F	B	D	E	C	.	.	B	A	1	6	1	6
6J42	6	60 6	.	.	.	.	.	.	.	.	.	.	.	.	.	1	6J65	6	95	A	.	F	B	D	E	C	.	.	B	A	1	6	1	6
6J43	6	60 6	.	.	.	.	.	.	.	.	.	.	.	.	.	1	6J66	6	95	A	.	F	B	D	E	C	.	.	B	A	1	6	1	6
6J44	6	60 6	.	.	.	.	.	.	.	.	.	.	.	.	.	1	6J67	6	95	A	.	F	B	D	E	C	.	.	B	A	1	6	1	6
6J45	6	60 6	.	.	.	.	.	.	.	.	.	.	.	.	.	1	6J68	6	95	A	.	F	B	D	E	C	.	.	B	A	1	6	1	6
6J46	6	60 6	.	.	.	.	.	.	.	.	.	.	.	.	.	1	6J69	6	95	A	.	F	B	D	E	C	.	.	B	A	1	6	1	6
6J47	6	60 6	.	.	.	.	.	.	.	.	.	.	.	.	.	1	6J70	6	95	A	.	F	B	D	E	C	.	.	B	A	1	6	1	6
6J48	6	60 6	.	.	.	.	.	.	.	.	.	.	.	.	.	1	6J71	6	95	A	.	F	B	D	E	C	.	.	B	A	1	6	1	6
6J49	6	60 6	.	.	.	.	.	.	.	.	.	.	.	.	.	1	6J72	6	95	A	.	F	B	D	E	C	.	.	B	A	1	6	1	6
6J50	6	60 6	.	.	.	.	.	.	.	.	.	.	.	.	.	1	6J73	6	95	A	.	F	B	D	E	C	.	.	B	A	1	6	1</	

TUBE	HT	SEN	SKT	1	2	3	4	5	6	7	8	9	10	11	12	13	14	TB	C
6KS6	6	83	5																
6KS8	6	33	8																
6KT6	6	77																	
6KT8	6	52	9																
6KT8	6	67	8																
6KU8	6	20	29																
6KV6	6	54	25																
6KV8	6	29	8																
6KW6	6	35	26																
6KY8	6	85	29																
6KY8	6	85																	
6KY8	6	20	9																
6KY8	6	55	25																
6KZ8	6	73	29																
6L5	6	96	24																
6L6	6	53	25																
6L7	6	99	24																
6L10	6	38	24																
6L12	6	70	7																
6L41	6	82	29																
6L43	6	45	29																
6LB6	6	55	21																
6LB8	6	21	8																
6LC6	6	86	24																
TUBE	HT	SEN	SKT	1	2	3	4	5	6	7	8	9	10	11	12	13	14	TB	C

TUBE	HT	SEN	SKT	1	2	3	4	5	6	7	8	9	10	11	12	13	14	TBC	TUBE	HT	SEN	SKT	1	2	3	4	5	6	7	8	9	10	11	12	13	14	TBC	
6NK7GT	6	84	24	C	A	C	E	C	D	B	F	.	.	.	.	B	A	1	6R-HH15	6	53	7	.	.	.	.	.	.	.	.	.	.	.	.	1		
6P5	6	93	14	.	.	.	.	.	.	.	.	.	.	.	.	.	.	2	.	6	53	.	.	.	.	.	.	.	.	.	.	.	.	.	2		
6P15	6	74	29	E	C	A	B	.	.	F	D	.	.	.	.	C	A	1	6R-HP2	6	68	29	C	E	A	B	F	D	.	.	.	.	.	.	C	A	1
6P17	6	73	30	E	D	A	B	F	C	D	.	.	.	.	.	B	A	1	6R-K19	6	96	29	E	C	A	B	F	C	F	.	.	.	.	.	A	A	1
607	6	88	24	A	F	.	.	.	.	B	C	.	.	.	.	A	A	1	G	6R-P22	6	10	29	F	A	B	.	.	F	.	.	.	.	C	1	K	
6011	6	87	23	A	F	.	.	.	.	B	C	.	.	.	.	B	1	6R-P15	6	70	29	E	C	A	B	F	F	D	.	.	.	.	.	C	A	1	
	6	87		A	.	F	.	.	.	.	B	C	.	.	.	.	B	1	6R-P22	6	58	29	C	E	D	A	B	F	C	.	.	.	.	.	B	A	1
	6	88		A	F	C	.	.	.	.	F	B	A	A	1	6S2	6	35	29	A	B	.	.	.	.	.	.	.	.	.	.	.	.	.	.	Y	
	6	88		A	.	.	F	C	E	.	.	B	A	A	1	6S4	6	58	29	C	A	B	E	F	.	.	.	.	.	.	.	.	.	B	A	1	
6R3	6	14	29	E	C	A	B	.	.	F	.	.	.	.	.	C	1	K	6S7	6	89	24	A	F	D	C	B	C	.	.	.	.	.	B	A	1	C
6R4	6	74	29	E	C	A	B	.	.	F	B	A	1	6S8	6	99	24	C	.	F	A	B	F	C	A	A	1	G
6R7	6	88	24	A	F	B	C	B	A	1	G	Good Over 60	88	.	.	F	C	A	B	1
	6	86	29	A	F	.	.	.	.	B	C	.	.	.	.	B	1	6S7	88	.	.	C	.	F	A	B	F	C	.	.	.	.	.	B	1		
	6	86	29	A	.	F	.	.	.	B	C	.	.	.	.	B	1	6S7	88	.	.	F	C	.	.	.	.	.	.	.	.	.	.	.	B	1	
	6	86	29	A	B	C	E	F	.	.	.	A	A	1	6S7	6	93	24	C	A	F	D	E	C	B	F	B	A	1
6R8	58	.	.	.	A	B	F	C	.	.	.	.	.	.	B	1	6S7Y	6	91	24	C	A	F	D	E	C	B	E	.	.	.	.	.	B	A	1	
6R-A2	6	58	29	F	.	A	B	C	.	.	.	.	.	.	B	1	6S67	6	99	24	F	E	.	C	A	B	F	C	.	.	.	.	.	A	A	1	
	6	58	29	F	C	A	B	.	.	.	.	.	.	.	B	1	6S67	99	.	.	E	F	C	A	B	F	C	.	.	.	.	.	A	A	1		
	6	45	29	C	E	A	B	.	.	F	D	A	1	6S67	6	69	24	C	A	C	E	C	D	B	F	B	A	1
	6	52	29	C	E	A	B	.	.	F	C	A	1	6S67	6	77	24	C	A	C	E	C	D	B	F	B	A	1
6R-A8	6	30	29	C	F	A	B	.	.	F	.	.	.	.	D	A	1	6S75	6	32	24	C	E	D	F	A	B	F	C	.	.	.	.	.	A	A	1
6R-A9	6	54	29	C	E	A	B	.	.	F	.	.	.	.	C	A	1	6S77	6	94	24	E	C	D	F	A	B	F	C	.	.	.	.	.	B	A	1
6R-AL1	6	60	29	F	E	A	B	.	.	C	.	.	.	.	C	A	1	6S77	88	.	.	C	.	E	A	B	F	C	.	.	.	.	.	B	1		
6R-B10	6	85	.	.	.	A	B	F	E	C	.	.	.	.	B	A	1	6S67	6	77	24	C	A	C	E	C	D	B	F	.	.	.	.	.	B	A	1
	6	42	28	D	E	A	B	.	.	C	.	F	.	.	.	D	A	1	6S77	6	77	24	C	A	C	E	C	D	B	F	B	A	1
	6	55	29	D	E	A	B	.	.	C	.	F	.	.	.	C	A	1	6S77	6	83	24	C	A	C	E	C	D	B	F	B	A	1
	6	50	29	D	E	A	B	.	.	C	.	F	.	.	.	C	F	1	6S77	6	84	24	C	A	C	E	C	D	B	F	B	A	1
6R-HH2	6	53	7	.	.	.	.	.	.	.	.	.	.	.	.	.	.	2	6S77	6	95	24	E	F	C	.	.	.	.	.	.	.	.	.	A	A	1
6R-HH8	6	53	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	2	6S77	95	.	.	E	F	C	.	.	.	.	.	.	.	.	.	A	A	1
	6	41	29	F	E	C	A	B	.	.	.	.	.	.	.	B	F	2	6S77	6	72	24	E	F	C	.	.	.	.	.	.	.	.	.	B	A	1
	6	52	.	.	.	A	B	F	E	C	.	.	.	.	.	B	F	2	6S77	72	.	.	E	F	C	.	.	.	.	.	.	.	.	.	B	A	1
TUBE	HT	SEN	SKT	1	2	3	4	5	6	7	8	9	10	11	12	13	14	TBC	TUBE	HT	SEN	SKT	1	2	3	4	5	6	7	8	9	10	11	12	13	14	TBC	

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TUBE	HT	SEN	SKT	1	2	3	4	5	6	7	8	9	10	11	12	13	14	TBC	TUBE	HT	SEN	SKT	1	2	3	4	5	6	7	8	9	10	11	12	13	14	TBC																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																														
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9A07	9	75	7															2	9KV6	9	16	9													2																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																
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9B7	9	90	90	A															9M-HH3	9	56	30	F		A	B		E	C							B	A	1																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																													
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10LB8	10	21	8 1		
10LD6	10	51	9 2		
10LD12	10	90	29 1		
	58			A	B	C	E	F	G	H	I	J	K	L	M	N	O	P
	58			A	B	F	C	B 1		
	58			F	A	B	C	B 1		
	58			F	C	A	B	B 1		
10LE8	10	57	29	F	C	D	A	B	B A 1		
	57			B A 1		
10LW8	10	25	8 2		
	76		 1		
10LY8	10	21	8 1		
*	99		 2		
10LZ8	10	55	8 1		
	99		 2		
10PL12	50	54	29	C	E	A	B	F	D	C A 1		
	88			E	.	A	B	.	.	C	F	B A 1		
10T10	9	90	19 1		
	99		 2		
10ZAD	10	73	23	A	D	O	C A 1		
	95			A	.	F	B	D	E	C	B A D 1		
				Normally Shows Short On Grid Emission														
11AF9	10	24	28	C	.	A	B	C	E	D	F	B A 1		
	61			E	O	D	F	A	B	B A 1		
11AR11	10	75	23	A	F	D	C	E	C	B B A 1		
	75			A	C	F	D	E	C	B	B A 1		
11BM8	10	54	29	C	E	A	B	F	D	C A 1		
	83			E	.	A	B	.	.	C	F	B A 1		
11BQ11	10	68	23	A	F	D	C	E	C	B B A 1		
	84			A	C	F	D	E	C	B	B A 1		
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11R3	12	14	29																12AJ7	12	85	29	D	E	C	A	B	F	E						B	A	1						
11V9	12	20	28																		88															B	F	2					
12A4	54			E	C	D	F	A	B										12AL5	12	62	30	F	A	B	C										B	1						
12A6	12	54	29																		82															B	1						
12A8	12	92	14																12AL8	12	88	29	E	E	A	B	F	C									B	A	1				
12AB5	12	95	24	A	F	D	E	C	B												89															A	B	1					
12AB5	12	64	29	D	C	A	B	E	C	F									12AL11	12	95	23	A	C	E	C	F	D									B	A	1				
12AC6	12	95	30	E	C	A	B	F	C												80															E	C	D	F	B	C	A	1
12AC10	12	70	23	A	F	C													12AO5	12	77	2																1					
	70			A															12AS6	12	65	3															1						
	70			A															12AT6	12	85	30	E	C	A	B		F										A	A	1			
12AD6	12	75	30	E	C	A	B	F	C												88																D	A	B	F	1		
12AD7	12	89	7																		88																C	A	B	F	1		
	89																		12AI7	12	74	7																B	1				
12AE6	12	80	30	E	C	A	B			F											74																	2					
	88																		12AU5	12	73	24	E	A	C	F		B	D									D	E	F	1		
12AE7	12	88																	12AU6	12	82	1																1					
12AE7	12	64	29	F	E	C	A	B											12AU7	12	75	7																1					
	64																				75																2						
12AE10	12	92	19																12AU8	12	56	8															1						
	99																				62																2						
12AF3	12	12	29																12AV5	12	62	24	E	A	C	F		B	D								D	A	1				
12AF6	12	80	30	E	C	A	B	F	F	C									12AV6	12	91	30	E	C	A	B		F										A	A	1			
12AF11	12	48	23	A	F																88																C	A	B	F	1		
	71			A																	88																C	A	B	F	1		
	76			A	E	F													12AV7	12	55	7																B	1				
12AG6	12	75	30	E	C	A	B	F	F	E											55																2						
12AH7	12	92	24	E	C	F													12AW6	12	78	1																1					
	92																		12AW8	12	44	8																1					
12AO6	12	80	30	E	C	A	B			F											78																	2					
	88																		12AX3	12	13	12																1					
	88																		12AX4	12	13	18																1					
TUBE	HT	SEN	SKT	1	2	3	4	5	6	7	8	9	10	11	12	13	14	TBC	TUBE	HT	SEN	SKT	1	2	3	4	5	6	7	8	9	10	11	12	13	14	TBC						

TUBE	HT	SEN	SKT	1	2	3	4	5	6	7	8	9	10	11	12	13	14	TB C	TUBE	HT	SEN	SKT	1	2	3	4	5	6	7	8	9	10	11	12	13	14	TB C																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
12DV7	12	99	29																12EN6	12	36	14														1																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																
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12DW8	12	94		C	F	A	B												12EQ7	12	88	29															B	1																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																														

TUBE	HT	SEN	SKT	1	2	3	4	5	6	7	8	9	10	11	12	13	14	TBC	TUBE	HT	SEN	SKT	1	2	3	4	5	6	7	8	9	10	11	12	13	14	TBC	
12FX8	12	78	29	F	E	F	B	A	.	C	.	E	.	.	.	.	.	A B 1	12HU8	12	58	29	D	E	F	A	B	.	C	.	.	.	.	.	B A 1	
12FY8	80			B	A	F	.	.	.	F	.	.	.	.	.	.	.	A B 1	12J5	58															B A 1	
	12	54	29	.	C	E	A	B	F	D	C A 1			12	93	14	1	
12G4	80			E	.	A	B	.	.	C	F	.	.	.	.	.	.	B A 1	12J7	12	96	24	A	F	D	C	.	B	C	.	.	.	.	.	.	A A 1 G
	12	89	30	.	A	B	F	E	C	.	.	.	.	.	.	.	.	C A 1			12	64	29	E	C	F	A	B	F	.	.	.	.	.	.	A B 1
12G8	12	85	29	F	C	E	A	B	.	.	.	.	.	.	.	.	.	A B 1	12J8	84																B 1
	85			.	.	A	B	F	C	E	.	.	.	.	.	.	.	A B 1			64			.	.	A	B	.	C	F	.	.	.	.	.	B 1
12G11	12	91	23	A	C	E	C	.	F	D	B A 1	12JB6	12	62	13	1 Z
	54			A	E	C	D	F	B	C	A	1			12JF5	12	47	23	A	D	C E B C E 1 P	
12GA6	12	84	30	E	D	A	B	F	E	.	.	.	.	.	.	.	.	A B 1	12JN6	12	60	28	A	C	D	C	.	F	.	C	E	F	B	D	E 1	
12G-B3	12	65	24	A	.	D	E	.	B	C	D E 1 Z	12JN8	12	67	10	1	
12G-B6	12	69	24	A	.	D	E	.	B	C	.	.	.	.	.	.	.	D E 1 Z	12J06	68															2	
12G-B7	12	61	24	A	.	D	E	.	B	C	D E 1 Z			12	79	29	F	.	D	A	B	C	E	E	C	D A 1	
12G-B5	12	26	29	D	C	.	A	B	E	C	.	.	.	.	.	.	.	B A 1	12JS6	80																B 1
12G-B6	12	52	24	A	C	.	E	C	B	D	C E 1 Z			12	58	21	1 Z
12G-B5	12	65	23	A	D	E	C	.	F	.	.	.	.	.	.	.	.	B D E 1	12J15	12	65	28	D	E	C	A	B	.	C	F	.	.	.	.	.	D E 1
12G-B5	12	65	13	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	12J28	12	55	23	A	.	F	.	.	.	E	D	C	.	B	C	E 1	
12G-K17	12	12	18	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	12K5	12	62	30	C	E	A	B	.	F	.	.	.	.	.	.	A B 1	
12GN7	12	21	9	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	12K7	12	96	24	A	F	D	C	.	B	C	.	.	.	.	.	B A 1 G	
12G-T5	12	63	25	D	E	C	A	B	.	C	F	.	.	.	.	.	.	D E 1	12K8	12	99	24	A	F	D	E	.	B	C	.	.	.	.	.	A A 1 G	
12GW6	12	62	24	A	.	D	E	.	B	C	.	.	.	.	.	.	.	D E 1 Z	12KL8	82			A	.	E	F	B	C	.	.	.	.	.	.	A A 1 G	
12H4	12	91	30	F	.	A	B	E	C	.	.	.	.	.	.	.	.	C A 1			12	86	29	C	E	C	A	B	D	F	.	.	.	.	B A 1	
12H6	12	67	24	A	F	C	.	.	B	.	.	.	.	.	.	.	.	B 1	12L6	90			.	.	C	A	B	.	F	.	.	.	.	.	.	B 1
	67			A	.	F	.	B	C	.	.	.	.	.	.	.	.	B 1			12	47	14	.	.	.	.	.	.	.	.	.	.	.	.	1
12H31	12	91	1	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	12MD8	12	76	25	F	.	A	B	.	C	E	.	.	.	.	.	.	C A 1
12H-B2	12	65	26	F	.	D	A	B	D	.	.	.	.	.	.	.	.	D E 1 Z	12NK7	76			.	F	.	A	B	.	C	E	.	.	.	.	.	C A 1
12H-B25	12	40	26	E	.	C	A	B	D	.	.	.	.	.	.	.	.	C E 1 Z			76			.	F	A	B	E	C	.	.	.	.	.	.	D A 1
12H-B7	12	52	23	A	.	.	.	.	F	.	.	.	.	.	.	.	.	D E 1	12N67	12	72	24	E	F	C	.	.	A	B	.	.	.	.	.	.	B A 1
	10			A	F	.	C	.	.	.	.	.	.	.	.	.	.	B			72			.	E	F	C	A	B	.	.	.	.	B A 1		
12H67	12	28	9	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	12HL5	12	44	29	.	E	C	A	B	.	F	.	D	.	.	.	.	C A 1
12HL5	12	44	29	.	E	C	A	B	.	F	.	D	.	.	.	.	.	C A 1																		
12HL7	12	18	29	C	E	C	A	B	.	F	.	D	.	.	.	.	.	B A 1																		
TUBE	HT	SEN	SKT	1	2	3	4	5	6	7	8	9	10	11	12	13	14	TBC	TUBE	HT	SEN	SKT	1	2	3	4	5	6	7	8	9	10	11	12	13	14	TBC	

TUBE	HT	SEN	SKT	1	2	3	4	5	6	7	8	9	10	11	12	13	14	TBC	TUBE	HT	SEN	SKT	1	2	3	4	5	6	7	8	9	10	11	12	13	14	TBC			
1207	12	88	24	A	F					B	C					A	A	1	G	12SR7	12	92	24	C	E	C		F	A	B					C	A	1			
		87		A	F					B	C					B	B	1				86		C		F	A	B							B	1				
		87		A	F					B	C					B	B	1				85		C	C	F	A	B							B	1				
12R5	12	50	3																	12SS7	12	86	24	A	C	E	C	D	B	F					B	A	1			
12R-B12	12	50	29	D	E	A	B			C						C	E	1	Z	12SW7	12	93	24	E	C		F	A	B							C	A	1		
12R-K19	12	10	29		A	B															88			D	F	A	B									B	1			
12R-K21	12	14	29		A	B															88				C	F	A	B								B	1			
12R-L13	12	55	7																	12SX7	12	91	24	E	F	C		A	B								C	A	1	
		55																			91					E	F	C	A	B						C	A	1		
12R-L15	12	68	7																	12SY7	12	93	24	C	A	F	D	E	C	B	E					B	A	1		
		68																		12T10	12	90	19														1			
12S8	12	99	24	C	F					F	A	B				A	A	1	G		99																2			
		88		F	C					A	B					B	B	1		12U7	12	64	29	F	E	C	A	B									A	B	1	
		88		C	F					A	B					B	B	1			64					A	B	E	F	C						A	B	1		
		88			F	C				A	B					B	B	1		12V6	12	79	14														1			
12SA7	12	93	24	C	A	F	D	E	C	B						B	A	1		12W6	12	51	14																	
12SC7	12	99	24	F	E					C	A	B				A	A	1		12X4	12	18	30	F	A	B											C	1		
		99			E	F	C	A	B							A	A	1			18					A	B	F	C							D	1			
12SF5	6	90	24	C	E	F				A	B					A	A	1		13CM5	12	57	24		A	D	E		B	C							D	E	1	
12SF7	12	94	24	F	E	C	D			A	B					B	A	1		13OW4	12	80	22		F	E		C	B								A	F	2	
		88			C	F				A	B					B	B	1		13D1	25	72	24	E	F	C		A	B								B	A	1	
12SG7	12	77	24	C	A	C	E	C	D	B						B	A	1			72					E	F	C	A	B						B	A	1		
12SH7	12	77	24	C	A	C	E	C	D	B						B	A	1		13OE7	12	61	29	F	E	A	B										D	A	1	
12SK7	12	83	24	C	A	C	E	C	D	B						B	A	1			88					A	B	E	F	C						C	A	1		
12SK7	12	84	24	C	A	C	E	C	D	B						B	A	1		13OF7	12	83	29	F	E	C	A	B										A	A	1
12SL7	12	96	24	E	F	C				A	B					A	A	1			83					A	B	F	E	C							A	A	1	
		95			E	F	C			A	B					A	A	1		13OR7	12	64	29	F	E	A	B											D	A	1
12SN7	12	72	24	F	C					A	B					B	A	1			94					A	B	E	F	C							B	A	1	
		72			E	F	C	A	B							B	A	1		13EM7	12	57	24	E	F	C		A	B									D	A	1
12SO7	12	99	24	C	E	C				F	A	B				A	A	1			95					E	F	D	A	B							B	A	1	
		85		C	C	F				A	B					B	B	1		13FD7	12	61	29	F	E	A	B											D	A	1
		85		C	C	F				A	B					B	B	1			87					A	B	F	E	C							A	A	1	
TUBE	HT	SEN	SKT	1	2	3	4	5	6	7	8	9	10	11	12	13	14	TBC	TUBE	HT	SEN	SKT	1	2	3	4	5	6	7	8	9	10	11	12	13	14	TBC			

TUBE	HT	SEN	SKT	1	2	3	4	5	6	7	8	9	10	11	12	13	14	TBC	TUBE	HT	SEN	SKT	1	2	3	4	5	6	7	8	9	10	11	12	13	14	TBC	
14JG8	14	88	29	C	A	B	F	C	E	F	C	D	E	B	A	1			15BD11	15	50	23	A	F	C	E	F	C	D	E	B	A	1					
14N6	60			C	A	B	F	C	E	F	C	D	E	B	A	1				62			A	F	C	E	F	C	D	E	B	A	1					
	60			F	C	A	B	C	D	E	F	C	D	E	B	A	1				66			A	E	F	C	D	E	B	A	1						
14Q7	14	89	27	A	C	F	E	B	A	1									15CW5	15	34	29	E	C	A	B	F	C	D	E	B	A	1					
	89			A	E	F	C	B	A	1									15D08	15	57	29	A	B	F	C	D	E	B	A	1							
14R7	14	88	27	A	F	D	E	C	B	A	1									80			E	F	C	A	B	F	C	D	E	B	A	1				
	14	84	27	A	F	D	E	C	B	A	1								15EA7	15	59	24	E	F	C	A	B	F	C	D	E	B	A	1				
14S7	90			A	F	D	E	C	B	A	1									92			E	F	C	A	B	F	C	D	E	B	A	1				
	90			A	E	F	C	B	A	1									15EW6	15	77	1																
14V7	14	89	27	A	F	E	D	C	B	A	1								15EW7	15	63	29	F	E	A	B	C	D	E	B	A	1						
	89			A	F	E	C	B	A	1										88			A	B	F	E	C	D	E	B	A	1						
14W7	14	85	27	A	F	D	C	E	B	A	1								15FM7	15	94	23	A	E	F	C	D	E	B	A	1							
	14	64	27	A	F	D	C	E	B	A	1									62			A	E	F	C	D	E	B	A	1							
14X7	14	92	27	A	F	E	D	C	B	A	1								15FY7	15	56	23	A	E	F	C	D	E	B	A	1							
	62			A	E	C	F	B	A	1										99			A	E	F	C	D	E	B	A	1							
14Y4	62			A	E	C	F	B	A	1													Good Over 30															
	14	18	27	A	F	D	E	C	B	A	1								15HA6	15	23	9																
14Y7	18			A	E	F	C	B	A	1									15HB6	15	20	9																
	14	18	27	A	F	D	E	C	B	A	1								15KY8	15	55	25	E	C	A	B	F	C	D	E	B	A	1					
15A6	18			A	E	F	C	B	A	1										99			C	A	B	F	E	D	C	B	A	1						
	15	54	29	D	E	C	A	B	F	C	D	E	B	A	1				15LE8	15	57	29	F	C	C	A	B	F	D	E	B	A	1					
15A8	15	53	24	A	E	D	C	B	A	1										57			C	A	B	F	C	D	E	B	A	1						
	90			C	A	E	D	C	B	A	1								15MF8	15	60	23	A	F	C	D	E	B	A	1								
15AB9	15	54	28	F	D	E	C	A	B	F	C	D	E	B	A	1				58			A	F	C	D	E	B	A	1								
	54			A	B	F	D	E	C	B	A	1							15M-P19	15	60	3																
15AF11	15	48	23	A	F	D	E	C	B	A	1								15MX8	15	90	25	C	A	B	F	E	D	C	B	A	1						
	71			A	E	C	E	F	B	A	1									50			E	C	A	B	F	D	E	B	A	1						
15BD7	76			A	E	F	C	B	A	1									16A5	16	52	29	E	D	A	B	F	D	E	B	A	1						
	15	79	29	F	E	C	A	B	F	C	D	E	B	A	1				16A8	16	54	29	C	E	A	B	F	D	E	B	A	1						
	83			C	A	B	F	C	D	E	B	A	1							88			E	A	B	F	C	D	E	B	A	1						
	83			C	A	B	F	C	D	E	B	A	1																									
TUBE	HT	SEN	SKT	1	2	3	4	5	6	7	8	9	10	11	12	13	14	TBC	TUBE	HT	SEN	SKT	1	2	3	4	5	6	7	8	9	10	11	12	13	14	TBC	

[illegible]

[illegible]

TUBE	HT	SEN	SKT	1	2	3	4	5	6	7	8	9	10	11	12	13	14	TBC
26A6	25	77	1	.	.	.	.	.	.	.	.	.	.	.	.	.	.	1
26A08	25	70	7	.	.	.	.	.	.	.	.	.	.	.	.	.	.	1
26B06	25	86	30	E	C	A	B	.	.	.	.	.	.	.	.	.	.	1
26B07	80	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	1
26C06	25	85	30	E	C	A	B	.	.	.	.	.	.	.	.	.	.	1
26D06	25	85	30	E	C	A	B	.	.	.	.	.	.	.	.	.	.	1
26E06	25	93	1	.	.	.	.	.	.	.	.	.	.	.	.	.	.	1
26H05	25	58	24	E	C	D	A	B	.	.	.	.	.	.	.	.	.	1
26H06	25	40	14	.	.	.	.	.	.	.	.	.	.	.	.	.	.	1
26H05	25	39	24	E	C	D	A	B	.	.	.	.	.	.	.	.	.	1
26J06	25	56	25	D	E	C	A	B	.	.	.	.	.	.	.	.	.	1
26K06	25	40	24	E	C	D	A	B	.	.	.	.	.	.	.	.	.	1
26LX6	25	47	21	.	.	.	.	.	.	.	.	.	.	.	.	.	.	1
26M06	25	16	29	E	C	D	A	B	.	.	.	.	.	.	.	.	.	1
27B08	25	74	6	.	.	.	.	.	.	.	.	.	.	.	.	.	.	1
27G05	25	34	26	E	C	D	A	B	.	.	.	.	.	.	.	.	.	1
27K06	25	23	26	E	C	D	A	B	.	.	.	.	.	.	.	.	.	1
27L06	25	48	21	.	.	.	.	.	.	.	.	.	.	.	.	.	.	1
28A08	25	90	29	.	.	.	.	.	.	.	.	.	.	.	.	.	.	1
28B08	58	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	1
28C04	30	10	24	F	.	A	B	.	.	.	.	.	.	.	.	.	.	1
28G05	30	34	26	E	C	D	A	B	.	.	.	.	.	.	.	.	.	1
28H05	30	34	26	E	C	D	A	B	.	.	.	.	.	.	.	.	.	1
28I05	30	34	26	E	C	D	A	B	.	.	.	.	.	.	.	.	.	1
28J05	30	34	26	E	C	D	A	B	.	.	.	.	.	.	.	.	.	1
28K05	30	34	26	E	C	D	A	B	.	.	.	.	.	.	.	.	.	1
28L05	30	34	26	E	C	D	A	B	.	.	.	.	.	.	.	.	.	1
28M05	30	34	26	E	C	D	A	B	.	.	.	.	.	.	.	.	.	1
28N05	30	34	26	E	C	D	A	B	.	.	.	.	.	.	.	.	.	1
28O05	30	34	26	E	C	D	A	B	.	.	.	.	.	.	.	.	.	1
28P05	30	34	26	E	C	D	A	B	.	.	.	.	.	.	.	.	.	1
28Q05	30	34	26	E	C	D	A	B	.	.	.	.	.	.	.	.	.	1
28R05	30	34	26	E	C	D	A	B	.	.	.	.	.	.	.	.	.	1
28S05	30	34	26	E	C	D	A	B	.	.	.	.	.	.	.	.	.	1
28T05	30	34	26	E	C	D	A	B	.	.	.	.	.	.	.	.	.	1
28U05	30	34	26	E	C	D	A	B	.	.	.	.	.	.	.	.	.	1
28V05	30	34	26	E	C	D	A	B	.	.	.	.	.	.	.	.	.	1
28W05	30	34	26	E	C	D	A	B	.	.	.	.	.	.	.	.	.	1
28X05	30	34	26	E	C	D	A	B	.	.	.	.	.	.	.	.	.	1
28Y05	30	34	26	E	C	D	A	B	.	.	.	.	.	.	.	.	.	1
28Z05	30	34	26	E	C	D	A	B	.	.	.	.	.	.	.	.	.	1
29A05	30	34	26	E	C	D	A	B	.	.	.	.	.	.	.	.	.	1
29B05	30	34	26	E	C	D	A	B	.	.	.	.	.	.	.	.	.	1
29C05	30	34	26	E	C	D	A	B	.	.	.	.	.	.	.	.	.	1
29D05	30	34	26	E	C	D	A	B	.	.	.	.	.	.	.	.	.	1
29E05	30	34	26	E	C	D	A	B	.	.	.	.	.	.	.	.	.	1
29F05	30	34	26	E	C	D	A	B	.	.	.	.	.	.	.	.	.	1
29G05	30	34	26	E	C	D	A	B	.	.	.	.	.	.	.	.	.	1
29H05	30	34	26	E	C	D	A	B	.	.	.	.	.	.	.	.	.	1
29I05	30	34	26	E	C	D	A	B	.	.	.	.	.	.	.	.	.	1
29J05	30	34	26	E	C	D	A	B	.	.	.	.	.	.	.	.	.	1
29K05	30	34	26	E	C	D	A	B	.	.	.	.	.	.	.	.	.	1
29L05	30	34	26	E	C	D	A	B	.	.	.	.	.	.	.	.	.	1
29M05	30	34	26	E	C	D	A	B	.	.	.	.	.	.	.	.	.	1
29N05	30	34	26	E	C	D	A	B	.	.	.	.	.	.	.	.	.	1
29O05	30	34	26	E	C	D	A	B	.	.	.	.	.	.	.	.	.	1
29P05	30	34	26	E	C	D	A	B	.	.	.	.	.	.	.	.	.	1
29Q05	30	34	26	E	C	D	A	B	.	.	.	.	.	.	.	.	.	1
29R05	30	34	26	E	C	D	A	B	.	.	.	.	.	.	.	.	.	1
29S05	30	34	26	E	C	D	A	B	.	.	.	.	.	.	.	.	.	1
29T05	30	34	26	E	C	D	A	B	.	.	.	.	.	.	.	.	.	1
29U05	30	34	26	E	C	D	A	B	.	.	.	.	.	.	.	.	.	1
29V05	30	34	26	E	C	D	A	B	.	.	.	.	.	.	.	.	.	1
29W05	30	34	26	E	C	D	A	B	.	.	.	.	.	.	.	.	.	1
29X05	30	34	26	E	C	D	A	B	.	.	.	.	.	.	.	.	.	1
29Y05	30	34	26	E	C	D	A	B	.	.	.	.	.	.	.	.	.	1
29Z05	30	34	26	E	C	D	A	B	.	.	.	.	.	.	.	.	.	1
30A05	30	34	26	E	C	D	A	B	.	.	.	.	.	.	.	.	.	1
30B05	30	34	26	E	C	D	A	B	.	.	.	.	.	.	.	.	.	1
30C05	30	34	26	E	C	D	A	B	.	.	.	.	.	.	.	.	.	1
30D05	30	34	26	E	C	D	A	B	.	.	.	.	.	.	.	.	.	1
30E05	30	34	26	E	C	D	A	B	.	.	.	.	.	.	.	.	.	1
30F05	30	34	26	E	C	D	A	B	.	.	.	.	.	.	.	.	.	1
30G05	30	34	26	E	C	D	A	B	.	.	.	.	.	.	.	.	.	1
30H05	30	34	26	E	C	D	A	B	.	.	.	.	.	.	.	.	.	1
30I05	30	34	26	E	C	D	A	B	.	.	.	.	.	.	.	.	.	1
30J05	30	34	26	E	C	D	A	B	.	.	.	.	.	.	.	.	.	1
30K05	30	34	26	E	C	D	A	B	.	.	.	.	.	.	.	.	.	1
30L05	30	34	26	E	C	D	A	B	.	.	.	.	.	.	.	.	.	1
30M05	30	34	26	E	C	D	A	B	.	.	.	.	.	.	.	.	.	1
30N05	30	34	26	E	C	D	A	B	.	.	.	.	.	.	.	.	.	1
30O05	30	34	26	E	C	D	A	B	.	.	.	.	.	.	.	.	.	1
30P05	30	34	26	E	C	D	A	B	.	.	.	.	.	.	.	.	.	1
30Q05	30	34	26	E	C	D	A	B	.	.	.	.	.	.	.	.	.	1
30R05	30	34	26	E	C	D	A	B	.	.	.	.	.	.	.	.	.	1
30S05	30	34	26	E	C	D	A	B	.	.	.	.	.	.	.	.	.	1
30T05	30	34	26	E	C	D	A	B	.	.	.	.	.	.	.	.	.	1
30U05	30	34	26	E	C	D	A	B	.	.	.	.	.	.	.	.	.	1
30V05	30	34	26	E	C	D	A	B	.	.	.	.	.	.	.	.	.	1
30W05	30	34	26	E	C	D	A	B	.	.	.	.	.	.	.	.	.	1
30X05	30	34	26	E	C	D	A	B	.	.	.	.	.	.	.	.	.	1
30Y05	30	34	26	E	C	D	A	B	.	.	.	.	.	.	.	.	.	1
30Z05	30	34	26	E	C	D	A	B	.	.	.	.	.	.	.	.	.	1
31A05	30	34	26	E	C	D	A	B	.	.	.	.	.	.	.	.	.	1
31B05	30	34	26	E	C	D	A	B	.	.	.	.	.	.	.	.	.	1
31C05	30	34	26	E	C	D	A	B	.	.	.	.	.	.	.	.	.	1
31D05	30	34	26	E	C	D	A	B	.	.	.	.	.	.	.	.	.	1
31E05	30	34	26	E	C	D	A	B	.	.	.	.	.	.	.	.	.	1
31F05	30	34	26	E	C	D	A	B	.	.	.	.	.	.	.	.	.	1
31G05	30	34	26	E	C	D	A	B	.	.	.	.	.	.	.	.	.	1
31H05	30	34	26	E	C	D	A	B	.	.	.	.	.	.	.	.	.	1
31I05	30	34	26	E	C	D	A	B	.	.	.	.	.	.	.	.	.	1
31J05	30	34	26	E	C	D	A	B	.	.	.	.	.	.	.	.	.	1
31K05	30	34	26	E	C	D	A	B	.	.	.	.	.	.	.	.	.	1
31L05	30	34	26	E	C	D	A	B	.	.	.	.	.	.	.	.	.	1
31M05	30	34	26	E	C	D	A	B	.	.	.	.	.	.	.	.	.	1
31N05	30	34	26	E	C	D	A	B	.	.	.	.	.	.	.	.	.	1
31O05	30	34	26	E	C	D	A	B	.	.	.	.	.	.	.	.	.	1
31P05	30	34	26	E	C	D	A	B	.	.	.	.	.	.	.	.	.	1
31Q05	30	34	26	E	C	D	A	B	.	.	.	.	.	.	.	.	.	1
31R05	30	34	26	E	C	D	A	B	.	.	.	.	.	.	.	.	.	1
31S05	30	34	26	E	C	D	A	B	.	.	.	.	.	.	.	.	.	1
31T05	30	34	26	E	C	D	A	B	.	.	.	.	.	.	.	.	.	1
31U05	30	34	26	E	C	D	A	B	.	.	.	.	.	.	.	.	.	1
31V05	30	34	26	E	C	D	A	B	.	.	.	.	.	.	.	.	.	1
31W05	30	34	26	E	C	D	A	B	.	.	.	.	.	.	.	.	.	1
31X05	30	34	26	E	C	D	A	B	.	.	.	.	.	.	.	.	.	1
31Y05	30	34	26	E	C	D	A	B	.	.	.	.	.	.	.	.	.	1
31Z05	30	34																

TUBE	HT	SEN	SKT	1	2	3	4	5	6	7	8	9	10	11	12	13	14	TBC	TUBE	HT	SEN	SKT	1	2	3	4	5	6	7	8	9	10	11	12	13	14	TBC																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																									
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TUBE	HT	SEN	SKT	1	2	3	4	5	6	7	8	9	10	11	12	13	14	TBC	TUBE	HT	SEN	SKT	1	2	3	4	5	6	7	8	9	10	11	12	13	14	TBC		
1622	6	63	14	.	.	.	.	.	.	.	.	.	.	.	.	.	1		5693		6	83	24	C	A	C	E	C	D	B	F	.	.		B	A	1		
1626	12	82	14	.	.	.	.	.	.	.	.	.	.	.	.	.			5726		6	77	1	.	.	.	.	.	.	.	.	.	.	.
1631	6	63	14	.	.	.	.	.	.	.	.	.	.	.	.	.	1		5726		6	82	30	F	A	B	C	.	.	.	.	.	.	.			B	1	
1632	12	47	14	.	.	.	.	.	.	.	.	.	.	.	.	.					62			C	A	B	.	F	.	.	.	.	.	.			B	1	
1634	12	99	24	F	E	.	C	A	B	.	.	.	.	.	.	.	A	A	5727		6	14	30	E	C	A	B	C	F	.	.	.	.			B	C	1	
	99			F	E	C	A	B	.	.	.	.	.	.	.	.	A	A	5749		6	78	1	.	.	.	.	.	.	.	.	.	.	.
1635	6	94	24	.	A	F	E	.	B	C	.	.	.	.	.	.	B	A	5750		6	91	1	.	.	.	.	.	.	.	.	.	.	.				1	
	94			A	.	E	F	B	C	.	.	.	.	.	.	.	B	A	5761		12	83	29	F	E	C	A	B	.	.	.	.	.			A	A	1	
1852	6	60	24	C	A	C	E	C	D	B	F	.	.	.	.	.	B	A			83			.	.	.	A	B	F	E	C	.	.	.			A	A	1
1853	6	74	24	C	A	C	E	C	D	B	F	.	.	.	.	.	B	A	5763		6	92	29	F	C	A	B	D	C	E	.	.	.				C	A	1
2033	6	60	30	F	A	B	E	C	.	.	.	.	.	.	.	.	B	A	5814		12	75	7	.	.	.	.	.	.	.	.	.	.	.				1	
	60			F	A	B	E	C	.	.	.	.	.	.	.	.	B	A			76			.	.	.	.	.	.	.	.	.	.				2		
2050	6	12	24	A	F	E	C	B	C	.	.	.	.	.	.	.	B	C	5822		6	15	29	E	C	A	B	.	F	.	.	.				B	A	1	
5591	6	63	1	.	.	.	.	.	.	.	.	.	.	.	.	.			5824		25	48	14	.	.	.	.	.	.	.	.	.	.	.				1	
5642	1	39	24	A	.	.	.	.	.	.	.	.	.	.	.	.	1	Y	5838		12	15	17	.	.	.	.	.	.	.	.	.	.	.				1	
				.	.	.	.	.	.	.	.	.	.	.	.	.					16			.	.	.	.	.	.	.	.	.	.				2		
5649	12	92	14	.	.	.	.	.	.	.	.	.	.	.	.	.			5839		25	15	17	.	.	.	.	.	.	.	.	.	.				1		
5651	1	95	30	F	.	F	.	.	.	.	.	.	.	.	.	.	E	D			16			.	.	.	.	.	.	.	.	.	.				2		
5654	6	63	1	.	.	.	.	.	.	.	.	.	.	.	.	.			5844		6	70	30	F	A	B	.	E	C	.	.	.	.				B	A	1
5659	12	82	14	.	.	.	.	.	.	.	.	.	.	.	.	.					70			F	A	B	E	C	.	.	.	.	.				B	A	1
5661	12	84	24	C	A	C	E	C	D	B	F	.	.	.	.	.	B	A	5852		6	15	17	.	.	.	.	.	.	.	.	.	.	.				1	
5670	6	60	29	A	C	E	F	.	.	.	.	.	.	.	.	.	B	A			18			.	.	.	.	.	.	.	.	.	.				2		
	60			A	.	.	.	F	E	C	B	.	.	.	.	.	B	A	5871		6	79	14	.	.	.	.	.	.	.	.	.	.	.				1	
5679	7	65	27	A	C	F	.	.	.	.	.	.	.	.	.	.	B		5879*		6	99	29	F	C	A	B	.	D	F	C	.	.			B	A	1	
	65			A	.	.	.	F	C	B	.	.	.	.	.	.			5881		6	63	14	.	.	.	.	.	.	.	.	.	.	.				1	
5686	6	84	29	C	E	C	A	B	D	F	C	D	.	.	.	.	C	A	5915		6	92	1	.	.	.	.	.	.	.	.	.	.	.				1	
5687	12	56	29	F	E	C	A	B	.	.	.	.	.	.	.	.	C	A	5920		6	49	30	F	A	B	E	C	.	.	.	.				B	A	1	
	56			F	.	A	B	C	E	.	F	.	.	.	.	.	C	A			49			F	A	B	.	E	C	.	.	.	.				B	A	1
5691	6	95	24	E	F	C	.	.	.	.	.	.	.	.	.	.	A	A	5931		5	15	17	.	.	.	.	.	.	.	.	.	.	.				1	
	95			.	.	.	.	E	F	C	A	B	.	.	.	.	A	A			15			.	.	.	.	.	.	.	.	.	.				2		
5692	6	72	24	E	F	C	.	.	.	.	.	.	.	.	.	.	B	A	5932		6	63	14	.	.	.	.	.	.	.	.	.	.	.				1	
	72			.	.	.	.	E	F	C	A	B	.	.	.	.	B	A						.	.	.	.	.	.	.	.	.	.	.
TUBE	HT	SEN	SKT	1	2	3	4	5	6	7	8	9	10	11	12	13	14	TBC	TUBE	HT	SEN	SKT	1	2	3	4	5	6	7	8	9	10	11	12	13	14	TBC		

TUBE	HT	SEN	SKT	1	2	3	4	5	6	7	8	9	10	11	12	13	14	TBC	TUBE	HT	SEN	SKT	1	2	3	4	5	6	7	8	9	10	11	12	13	14	TBC				
6159	25	57	24	C	A	D	E	E	B	B	B	B	B	B	B	B	B	C	6386	6	81	29	A	C	E	F	F	F	F	F	F	F	F	C	A	1					
6180	6	72	24	E	F	C	A	B	A	B	A	B	A	B	A	B	A	B	6414	12	55	7	A	A	A	A	A	A	A	A	A	A	A	A	A	C	A	1			
6186	6	80	1	E	F	C	A	B	A	B	A	B	A	B	A	B	A	B	6417	12	82	29	F	C	A	B	D	C	E	F	F	F	F	F	F	C	A	1			
6187	6	87	1	E	F	C	A	B	A	B	A	B	A	B	A	B	A	B	6483	12	85	29	F	C	E	A	B	A	B	A	B	A	B	A	B	A	B	C	A	1	
6188	6	95	24	E	F	C	A	B	A	B	A	B	A	B	A	B	A	B	6485	6	65	1	A	B	F	C	E	F	F	F	F	F	F	F	F	C	A	1			
6189	12	75	7	E	F	C	A	B	A	B	A	B	A	B	A	B	A	B	6485	6	58	1	E	C	A	B	F	C	D	E	F	F	F	F	F	F	B	A	1		
6197	6	45	29	C	E	D	A	B	F	C	A	B	A	B	A	B	A	B	6516	6	73	30	E	C	A	B	F	C	D	E	F	F	F	F	F	F	C	C	1		
6198	12	75	7	E	F	C	A	B	A	B	A	B	A	B	A	B	A	B	6520	6	35	24	E	F	C	A	B	A	B	A	B	A	B	A	B	A	B	C	C	1	
6201	12	74	7	E	F	C	A	B	A	B	A	B	A	B	A	B	A	B	6550	6	52	14	E	F	F	F	F	F	F	F	F	F	F	F	F	F	F	E	D	1	
6202	6	18	30	F	A	B	C	A	B	C	A	B	C	A	B	C	A	B	6627*	1	99	30	E	F	F	F	F	F	F	F	F	F	F	F	F	F	F	E	D	1	
6203	6	18	29	F	A	B	C	A	B	C	A	B	C	A	B	C	A	B	6660	6	78	1	E	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	E	D	1
6211	12	54	7	E	F	C	A	B	A	B	A	B	A	B	A	B	A	B	6661	6	89	1	E	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	E	D	1
6215	1	86	15	E	F	C	A	B	A	B	A	B	A	B	A	B	A	B	6662	6	81	1	E	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	E	D	1
6216	6	50	29	F	E	C	A	B	D	E	F	C	A	B	C	A	B	C	6663	6	62	30	F	A	B	C	A	B	C	A	B	C	A	B	C	A	B	B	1		
6227	6	53	9	E	F	C	A	B	A	B	A	B	A	B	A	B	A	B	6664	6	83	30	F	A	B	E	C	A	B	E	C	A	B	E	C	A	B	B	A	1	
6266	6	89	1	E	F	C	A	B	A	B	A	B	A	B	A	B	A	B	6669	6	77	2	E	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	E	D	1
6267	6	96	29	D	C	A	B	F	C	E	F	C	A	B	C	A	B	C	6676	6	64	1	E	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	E	D	1
6336	6	60	24	E	F	C	A	B	A	B	A	B	A	B	A	B	A	B	6677	6	45	29	C	E	D	A	B	F	C	E	F	C	A	B	C	E	F	C	A	1	
6350	6	60	24	E	F	C	A	B	A	B	A	B	A	B	A	B	A	B	6678	6	79	6	E	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	E	D	1
6350	12	65	29	F	C	E	A	B	D	E	F	C	A	B	C	A	B	C	6679	12	74	7	E	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	E	D	1
6360	6	65	29	E	C	E	A	B	F	C	E	F	C	A	B	C	A	B	6680	12	75	7	E	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	E	D	1
6384	6	85	24	C	F	D	A	E	B	A	B	A	B	A	B	A	B	A	6681	12	89	29	F	E	C	A	B	A	B	A	B	A	B	A	B	A	B	C	A	1	
				E	F	C	A	B	A	B	A	B	A	B	A	B	A	B	6686	6	60	9	E	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	E	D	1
				E	F	C	A	B	A	B	A	B	A	B	A	B	A	B	6687	6	89	1	E	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	E	D	1
TUBE	HT	SEN	SKT	1	2	3	4	5	6	7	8	9	10	11	12	13	14	TBC	TUBE	HT	SEN	SKT	1	2	3	4	5	6	7	8	9	10	11	12	13	14	TBC				

TUBE	HT	SEN	SKT	1	2	3	4	5	6	7	8	9	10	11	12	13	14	TBC	TUBE	HT	SEN	SKT	1	2	3	4	5	6	7	8	9	10	11	12	13	14	TBC		
6688	6	66	29	C	E	.	A	B	.	F	C	D	.	.	.	B	A	1	7058	12	89	29	F	E	C	A	B	.	.	.	.	.	.	A	A	1		
6689	6	53	29	D	E	C	A	B	F	.	.	.	.	.	.	B	A	1	7059	12	79	6	.	.	.	.	.	.	.	.	.	.	.	.	A	A	1	
6829	12	54	7	.	.	.	.	.	.	.	.	.	.	.	.	.	.	1	7060	12	55	29	.	.	.	A	B	F	D	E	C	.	.	.	B	A	1	
6831*	1	99	30	E	.	.	F	.	.	.	.	.	.	.	.	E	D	1	7061	12	75	29	F	E	C	A	B	.	.	.	.	.	.	B	A	1		
6883	12	57	24	C	A	B	.	E	B	.	.	.	.	.	.	C	E	1	7062	12	64	29	D	C	.	A	B	E	C	F	.	.	.	B	A	1		
6887	6	65	30	F	A	B	C	.	.	.	.	.	.	.	.	.	B	1	7063	12	54	7	.	.	.	.	.	.	.	.	.	.	.	.	.	1		
6888	6	62	24	C	A	C	E	C	D	B	F	.	.	.	.	B	A	1	7064	12	54	7	.	.	.	.	.	.	.	.	.	.	.	.	.	.	2	
6900	12	55	29	E	E	C	A	B	.	.	.	.	.	.	.	C	A	1	7065	12	45	24	E	F	C	.	.	A	B	.	.	.	.	.	.	C	C	1
6919	6	60	30	F	A	B	C	.	.	.	.	.	.	.	.	B	1	7066	12	56	29	F	E	C	A	B	.	.	.	.	.	.	.	.	.	C	A	1
6922	6	64	7	C	A	B	.	.	.	.	.	.	.	.	.	.	B	1	7067	12	56	29	.	.	.	A	B	C	E	F	.	.	.	.	.	C	A	1
6939	12	60	29	C	E	A	B	.	D	F	.	.	.	.	.	B	A	1	7068	6	39	29	E	C	A	B	.	F	D	.	.	.	.	.	.	B	A	1
6968	6	63	1	E	.	.	.	.	.	.	.	.	.	.	.	.	.	2	7069	6	74	29	F	E	C	A	B	.	F	D	.	.	.	.	.	B	A	1
6973	6	60	29	D	E	A	B	.	C	F	B	E	1	7070	6	57	24	C	A	B	C	C	1
7000	6	96	24	A	F	D	C	.	B	C	A	A	1	7071	12	76	29	F	E	C	A	B	B	A	1
7025	12	89	29	F	E	C	A	B	A	A	1	7072	6	83	29	.	.	.	A	B	F	E	C	A	A	1
7027	6	67	24	D	A	F	E	.	B	C	C	A	1	7073	12	62	29	F	E	C	A	B	.	F	D	E	C	B	A	1
7036	6	92	1	E	.	.	.	.	.	.	.	.	.	.	.	.	.	1	7074	6	23	7	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	1
7044	12	55	29	F	E	C	A	B	.	.	.	.	.	.	.	C	A	1	7075	6	24	7	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	2
7054	12	42	9	.	.	.	.	.	.	.	.	.	.	.	.	.	.	1	7076	12	75	7	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	2
7055	12	62	30	F	A	B	C	.	.	.	.	.	.	.	.	B	1	7077	6	40	29	D	E	C	A	B	.	F	D	.	.	.	.	.	.	B	A	1
7056	12	84	1	C	A	B	B	1	7078	6	57	24	.	A	F	.	C	E	B	D	C	A	1
7057	12	53	7	1	7079	25	67	24	C	A	B	.	F	D	C	E	1
				.	.	.	.	.	.	.	.	.	.	.	.	.	.	2	7080	6	80	29	C	D	E	A	B	F	D	.	.	.	.	.	.	B	A	1
				.	.	.	.	.	.	.	.	.	.	.	.	.	.	1	7081	6	80	29	C	D	E	A	B	F	D	.	.	.	.	.	.	B	A	1
				.	.	.	.	.	.	.	.	.	.	.	.	.	.	1	7082	6	80	29	C	D	E	A	B	F	D	.	.	.	.	.	.	B	A	1
				.	.	.	.	.	.	.	.	.	.	.	.	.	.	1	7083	6	80	29	C	D	E	A	B	F	D	.	.	.	.	.	.	B	A	1
				.	.	.	.	.	.	.	.	.	.	.	.	.	.	1	7084	6	80	29	C	D	E	A	B	F	D	.	.	.	.	.	.	B	A	1
				.	.	.	.	.	.	.	.	.	.	.	.	.	.	1	7085	6	80	29	C	D	E	A	B	F	D	.	.	.	.	.	.	B	A	1
				.	.	.	.	.	.	.	.	.	.	.	.	.	.	1	7086	6	80	29	C	D	E	A	B	F	D	.	.	.	.	.	.	B	A	1
				.	.	.	.	.	.	.	.	.	.	.	.	.	.	1	7087	6	80	29	C	D	E	A	B	F	D	.	.	.	.	.	.	B	A	1
				.	.	.	.	.	.	.	.	.	.	.	.	.	.	1	7088	6	80	29	C	D	E	A	B	F	D	.	.	.	.	.	.	B	A	1
				.	.	.	.	.	.	.	.	.	.	.	.	.	.	1	7089	6	80	29	C	D	E	A	B	F	D	.	.	.	.	.	.	B	A	1
				.	.	.	.	.	.	.	.	.	.	.	.	.	.	1	7090	6	80	29	C	D	E	A	B	F	D	.	.	.	.	.	.	B	A	1
				.	.	.	.	.	.	.	.	.	.	.	.	.	.	1	7091	6	80	29	C	D	E	A	B	F	D	.	.	.	.	.	.	B	A	1
				.	.	.	.	.	.	.	.	.	.	.	.	.	.	1	7092	6	80	29	C	D	E	A	B	F	D	.	.	.	.	.	.	B	A	1
				.	.	.	.	.	.	.	.	.	.	.	.	.	.	1	7093	6	80	29	C	D	E	A	B	F	D	.	.	.	.	.	.	B	A	1
				.	.	.	.	.	.	.	.	.	.	.	.	.	.	1	7094	6	80	29	C	D	E	A	B	F	D	.	.	.	.	.	.	B	A	1
				.	.	.	.	.	.	.	.	.	.	.	.	.	.	1	7095	6	80	29	C	D	E	A	B	F	D	.	.	.	.	.	.	B	A	1
				.	.	.	.	.	.	.	.	.	.	.	.	.	.	1	7096	6	80	29	C	D	E	A	B	F	D	.	.	.	.	.	.	B	A	1
				.	.	.	.	.	.	.	.	.	.	.	.	.	.	1	7097	6	80	29	C	D	E	A	B	F	D	.	.	.	.	.	.	B	A	1
				.	.	.	.	.	.	.	.	.	.	.	.	.	.	1	7098	6	80	29	C	D	E	A	B	F	D	.	.	.	.	.	.	B	A	1
				.	.	.	.	.	.	.	.	.	.	.	.	.	.	1	7099	6	80	29	C	D	E	A	B	F	D	.	.	.	.	.	.	B	A	1
				.	.	.	.	.	.	.	.	.	.	.	.	.	.	1	7100	6	80	29	C	D	E	A	B	F	D	.	.	.	.	.	.	B	A	1
				.	.	.	.	.	.	.	.	.	.	.	.	.	.	1	7101	6	80	29	C	D	E	A	B	F	D	.	.	.	.	.	.	B	A	1
				.	.	.	.	.	.	.	.	.	.	.	.	.	.	1	7102	6	80	29	C	D	E	A	B	F	D	.	.	.	.	.	.	B	A	1
				.	.	.	.	.	.	.	.	.	.	.	.	.	.	1	7103	6	80	29	C	D	E	A	B	F	D	.	.	.	.	.	.	B	A	1
				.	.	.	.	.	.	.	.	.	.	.	.	.	.	1	7104	6	80	29	C	D	E	A	B	F	D	.	.	.	.	.	.	B	A	1
				.	.	.	.	.	.	.	.	.	.	.	.	.	.	1	7105	6	80	29	C	D	E	A	B	F	D	.	.	.	.	.	.	B	A	1
				.	.	.	.	.	.	.	.	.	.	.	.	.	.	1	7106	6	80	29	C	D	E	A	B	F	D	.	.	.	.	.	.	B	A	1
				.	.	.	.	.	.	.	.	.	.	.	.	.	.	1	7107	6	80	29	C	D	E	A	B	F	D	.	.	.	.	.	.	B	A	1
				.	.	.	.	.	.	.	.	.	.	.	.	.	.	1	7108	6	80	29	C	D	E	A	B	F	D	.	.	.	.	.	.	B	A	1
				.	.	.	.	.	.	.	.	.	.	.	.	.	.	1	7109	6	80	29	C	D	E	A	B	F	D	.	.	.	.	.	.	B	A	1
				.	.	.	.	.	.	.	.	.	.	.	.	.	.	1	7110	6	80	29	C	D	E	A	B	F	D	.	.	.	.	.	.	B	A	1
				.	.	.	.	.	.	.	.	.	.	.	.	.	.	1	7111	6	80	29	C	D	E	A	B	F	D	.	.	.	.	.	.	B	A	1
				.	.	.	.	.	.	.	.	.	.	.	.	.	.	1	7112	6	80	29	C	D	E	A	B	F	D	.	.	.	.	.	.	B	A	1
				.	.	.	.	.	.	.	.	.	.	.	.	.	.	1	7113	6	80	29	C	D	E	A	B	F	D	.	.	.	.	.	.	B	A	1
				.	.	.	.	.	.	.	.	.	.	.	.	.	.	1	7114	6	80	29	C	D	E	A	B	F	D	.	.	.	.	.	.	B	A	1
				.	.	.	.	.	.	.	.	.	.	.	.	.	.	1	7115	6	80	29	C	D	E	A	B	F	D	.	.	.	.	.	.	B	A	1
				.	.	.	.	.	.	.	.	.	.	.	.	.	.	1	7116	6	80	29	C	D	E	A	B	F	D	.	.	.	.	.	.	B	A	1
				.	.	.	.	.	.	.	.	.	.	.	.	.	.	1	7117	6	80	29	C	D	E	A	B	F	D	.	.	.	.	.	.	B	A	1
				.	.	.	.	.	.	.	.	.	.	.	.	.	.	1	7118	6	80	29	C	D	E	A	B	F	D	.	.	.	.	.	.	B	A	1
				.	.	.	.	.	.	.	.	.	.	.	.	.	.	1	7119	6	80	29	C	D	E	A	B	F	D	.	.	.	.	.	.	B	A	1
				.	.	.	.	.	.	.	.	.	.	.	.	.	.	1	7120	6	80	29	C	D	E	A	B											

TUBE	HT	SEN	SKT	1	2	3	4	5	6	7	8	9	10	11	12	1314TB C	TUBE	HT	SEN	SKT	1	2	3	4	5	6	7	8	9	10	11	12	1314TB C
8106	14	51	29	F	C	D	A	B	C	E	D	C	.	.	.	B A 1	EAF801	6	75	29	D	E	C	A	B	F	C	C	.	.	.	B A 1	
8113	6	58	1	.	.	.	.	.	.	.	.	.	.	.	.	1	EC11800	6	75	29	F	E	A	B	C	.	C	F	.	.	.	B 1
8136	6	65	1	.	.	.	.	.	.	.	.	.	.	.	.	1	Good Over 10	6	99	29	F	E	A	B	C	.	C	.	.	.	.	B C 1
8149	12	56	23	A	C	D	.	.	.	.	E	B	D	E	1	Z		57			E	F	A	B	C	D	.	.	.	.	.	B A 1
8150	12	56	23	A	C	.	D	.	.	.	E	B	D	E	1	Z		57			.	A	B	E	C	F	D	.	.	.	B A 1		
8188	14	58	23	A	C	F	.	.	.	D	E	B	C	A	1		EL509	6	40	26	E	C	D	A	B	.	C	.	.	.	C E 1 Z		
8233	6	12	26	F	C	D	A	B	.	C	E	C	.	.	.	B E 1	FX82	6	41	29	.	C	A	B	.	F	D	.	.	.	.	C 1
8255	6	50	20	E	C	A	B	.	.	F	B A 1	KT88	6	43	14	1
8278	6	16	26	D	C	E	A	B	C	E	F	.	.	.	.	C A 1	PL981	4	88	2	E	C	D	A	B	.	C	.	.	.	.	C E 1 Z
8298	6	57	24	C	A	D	E	.	B	.	.	.	.	.	.	C E 1 Z	PL509	40	40	26	E	C	D	A	B	.	C	.	.	.	.	C E 1 Z
8393	12	57	22	F	E	.	.	.	.	C	A	B	B	F	2	1	PL805	17	22	29	F	D	A	B	C	.	C	.	.	.	.	B A 1
8417	6	55	14	.	.	.	.	.	.	.	.	.	.	.	.	1	TJ880	6	45	29	C	E	C	A	B	.	F	D	.	.	.	C A 1
8425	6	82	1	.	.	.	.	.	.	.	.	.	.	.	.	1	UAA91	19	82	30	F	A	B	C	.	.	.	.	.	.	.	B 1
8458	14	66	25	E	C	A	B	F	D	.	.	.	.	.	.	C A 1		62			C	A	B	.	.	.	F	.	.	.	.	B 1
	66			C	E	A	B	.	D	F	.	.	.	.	.	C A 1	UC92	9	83	30	F	A	B	C	.	.	.	C	.	.	.	B A 1
8552	12	57	24	C	A	D	E	.	B	.	.	.	.	.	.	C E 1 Z	UCC84	22	65	29	C	E	F	A	B	.	.	.	.	.	.	C A 1
8556	6	20	29	E	C	A	B	.	.	F	.	.	.	.	.	B A 1		65			.	A	B	E	C	F	.	.	.	.	.	C A 1
8908	6	40	24	C	D	C	E	A	B	C E 1 Z	UCF80	25	74	6	1
8950	12	45	21	.	.	.	.	.	.	.	.	.	.	.	.	1		56			.	.	.	.	.	.	.	.	.	.	.	2
9001	6	93	1	.	.	.	.	.	.	.	.	.	.	.	.	1	UF86	12	96	28	D	C	A	B	F	.	C	E	.	.	.	B A 1
9002	6	83	30	F	C	A	B	F	C	B A 1	UY82	50	19	29	C	A	B	.	.	.	F	C 1
9003	6	95	1	.	.	.	.	.	.	.	.	.	.	.	.	1	X107	19	91	1	.	.	.	.	.	.	.	.	.	.	.	1
9008	6	40	30	F	C	A	B	F	C	C 1					
DC90	1	99	30	A	F	.	E	.	B	B F 2					
				Good Over 80																													
DH77	19	85	30	E	C	A	B	.	.	F	A A 1					
	88			C	A	B	F	B 1					
	88			C	A	B	F	B 1					
E182CC	6	56	28	F	E	C	A	B	C A 1					
	56			.	.	.	A	B	F	E	C	C A 1					
TUBE	HT	SEN	SKT	1	2	3	4	5	6	7	8	9	10	11	12	1314TB C	TUBE	HT	SEN	SKT	1	2	3	4	5	6	7	8	9	10	11	12	1314TB C

FOREIGN TUBE TYPES NOT LISTED IN CHART VERSUS AMERICAN TUBE TYPES LISTED

FOREIGN	AMERICAN	FOREIGN	AMERICAN	FOREIGN	AMERICAN	FOREIGN	AMERICAN
1C1	1R5	6T1	6AF4	ARR1	6L7	DD7	6AM5
1C2	1AC6	6Z4	6X4	ARP15	6K7	DD77	6AL5
1C3	1AB6	7D9	6AM5	ARP16	6J7	DDR7	6AM5
1D13	1A3	7D10	6CH6	ARP17	6F6	DF26	1S5
1H35	1AB6	7D11	6550	ARP32	6V6	DF33	1N5
1P1	3C4	8D3	6AM6	ARP33	6V6	DF91	1T4
1RK23	1S2	8D5	5879	ARTH/1	6K8	DF92	1L4
5A/160H	6AM6	8D6	6BX6	AU13	5Y3	DF96	1AJ4
6AT7N	6DT8	9D8	6CQ6	AZ32	5Y3	DF97	1AN5
6C12	6AJ8	10L14	26A08	B36	12SN7	DF904	1U4
6C16	6BL8	10LD13	15BD7	B65	6SN7	DH63	607
6C18	6GV7	10P18	45B5	B139	7AN7	DH74	12Q7
6CC31	6J6	12E13	6550	B152	12AT7	DH76	12Q7
6CC42	5670	13D2	6SN7	B309	12AT7	DH77	6AT6
6CC43	6A08	16A	6AM5	B319	7AN7	DH149	7C6
6CH40	6AJ8	19B0	19X3	B329	12AU7	DH710	6T8
6D1	6DR4	19SU	19Y3	B339	12AX7	DH719	6T8
6D2	6AL5	19U3	19X3	B719	6A08	DK32	1A7
6E8	6A8	19W3	19X3	BPM04	6A05	DK91	1R5
6F11	6AM6	20D4	6AJ8	C610	7J7	DK92	1AC6
6F12	6AM6	30C18	76V7	CC81E	12AT7	DK96	1AB6
6F19	6BY7	30FL1	96B8	CCA	6922	DK97	1AB6
6F21	6CQ6	30P18	15CW5	D2M9	6AL5	DL29	3D6
6F22	6267	30PL12	16A8	D63	6H6	DL31	1A5
6F23	6EH7	40SUA	1D5	D77	6AL5	DL33	3D5
6F26	6BY7	52KU	5Z4	D152	6AL5	DL35	1C5
6F29	6EH7	63T1	6AB8	D193	3A4	DL36	1D5
6F30	6EJ7	63TP	6AB8	DA90	1A3	DL37	6L6
6F32	6AK5	150C3	QD3	DAC21	1S5	DL91	1S4
6F35	6AJ5	163PEN	16A5	DAC32	1H5	DL92	3S4
6L13	12AX7	171DDP	17C8	DAF90	1A3	DL93	3A4
6L16	6CW7	A863	6J7	DAF91	1S5	DL94	3V4
6L31	6AD5	A1834	6AS7	DAF92	1U5	DL95	3D4
6L34	6AD4	AA91E	6AL5	DAF96	1AH5	DL96	3C4
6P9	6BM5	ABC91	12A6	DAF97	1AN5	DP61	6AK5
6PL12	6BM8	AR18	607	DCC90	3A5	DY30	1B3
6Q8	6A8	ARD03	6H6	DD6	6AL5	DY70	5642

FOREIGN	AMERICAN	FOREIGN	AMERICAN	FOREIGN	AMERICAN	FOREIGN	AMERICAN
DY80	1AX2	E2163	12AU7	ECC40	6N7	ECH84	6JX8
DY86	1S2	E2164	12AX7	ECC81	12AT7	ECH200	6V9
DY87	1S2	EAA91	6AL5	ECC82	12AU7	ECL80	6AB8
DY802	1B02	EAA171	6AL5	ECC83	12AX7	ECL82	6BM8
E55L	8233	EAA901	6AL5	ECC84	6CW7	ECL84	6DX8
E80CC	6085	EAA901S	6AL5	ECC85	6AQ8	ECL85	6GV8
E80CF	7643	EABC80	6AK8	ECC86	6GM8	ECL86	6GW8
E80F	6084	E834	6H6	ECC88	6DJ8	ECL821	6CH6
E80L	6227	E891	6AL5	ECC89	6FC7	ED2	6AL5
E81CC	12AT7	E8C3	6BD7	ECC91	6J6	ED500	6ED4
E81L	6886	E8C80	6BD7	ECC180	6BQ7	EF5	6DA6
E82CC	12AU7	E8C81	6BD7	ECC186	12AU7	EF13	6DA6
E83CC	12AX7	E8C90	6AT6	ECC189	6ES8	EF22	7G7
E83F	6889	E8C91	6AV6	ECC230	6080	EF36	6J7
E84L	7320	E8F32	688	ECC801	12AT7	EF80	6BX6
E88C	8255	E8F80	6N8	ECC801S	12AT7	EF82	6CH6
E88CC	6DJ8	E8F83	6DR8	ECC802	12AU7	EF85	6BY7
E90C	5920	E8F85	6DC8	ECC802S	12AU7	EF86	6267
E90CC	5920	E8F89	6DC8	ECC803	12AX7	EF87	6CF8
E90F	7693	EC22	6R4	ECC803S	12AX7	EF89	6DA6
E90Z	6X4	EC80	6Q4	ECC804	6GA8	EF91	6AM6
E91AA	6AL5	EC81	6R4	ECC808	6KX8	EF92	6CQ6
E91H	6887	EC84	6AJ4	ECC813	6463	EF93	6BA6
E91N	5727	EC86	6CM4	ECC863	12DT7	EF94	6AU6
E92CC	6J6	EC88	6DL4	ECC900	6HA5	EF95	6AK5
E95F	6AK5	EC90	6C4	ECC960	5920	EF96	6AG5
E99F	7694	EC91	6AQ4	ECF80	6BL8	EF98	6ET6
E180CC	7062	EC92	6AB4	ECF82	6U8	EF183	6EH7
E180F	6888	EC94	6AF4	ECF86	6HG8	EF184	6EJ7
E182CC	7119	EC95	6ER5	ECF200	6X9	EF190	6CB6
E188CC	7308	EC97	6FY5	ECF201	6U9	EF804	6F40
E280F	7722	EC806S	6CM4	ECF202	6AJ9	EF812	6EL7
E810F	7788	EC900	6HA5	ECF801	6GJ7	EF861	6688
E902	6X4	EC8010	8556	ECF802	6JW8	EF905	6AK5
E1485	3A4	ECC32	6SN7	ECF805	6GV7	EFL200	6Y9
E2016	6CQ6	ECC33	6SN7	ECH81	6AJ8	EH90	6CS6
E2157	12AT7	ECC35	6SL7	ECH83	6DS8	EK90	6BE6

FOREIGN	AMERICAN	FOREIGN	AMERICAN	FOREIGN	AMERICAN	FOREIGN	AMERICAN
EL32	6V6	EY88	6AL3	HP6	6AM6	LL521	21KQ6
EL33	6V6	EY500	6EC4	HY90	35W4	LL802	10LD6
EL34	6CA7	EZ3	6V4	HY145	1U4	LN119	50BM8
EL35	6Y6	EZ4	6CA4	HZ90	12X4	LN152	6AB8
EL36	6CM5	EZ11	6V4	KK32	1C7	LN309	16A8
EL37	6L6	EZ22	7Y4	KT32	25L6	LY81	11R3
EL38	6CN6	EZ35	6X5	KT33	25A6	LY88	20AQ3
EL81	6CJ6	EZ80	6V4	KT63	6F6	LY500	28EC4
EL82	6DY5	EZ81	6CA4	KT66	6L6	LZ319	8A8
EL83	6CK6	EZ90	6X4	KT71	50L6	LZ329	9A8
EL84	6BQ5	EZ91	6CA4	KT77	6CA7	M8063	6AM6
EL85	6BN5	EZ90D	6X4	KT88	6550	M8078	5726
EL86	6CW5	G180ZM	0D3	KTZ63	6J7	M8081	6J6
EL90	6AQ5	GY501	3BH2	L63	6C5	M8096	5753
EL91	6AM5	6Z30	5Z4	L63B	6C5	M8100	6AK5
EL95	6DL5	6Z32	5V4	L77	6C4	M8136	12AU7
EL180	12BY7	6Z34	5AR4	LC97	3ER5	M8137	12AX7
EL500	6GB5	H52	5AS4	LC900	3HA5	M8162	12AT7
EL503	8278	H63	6F5	LCC189	5ES8	M8196	5725
EL504	6GB5	HAA91	12AL5	LCF80	6LN8	M8212	5726
EL505	6KG6	HABC80	19T8	LCF86	5HG8	M8232	6J4
EL508	6GW6	HBC90	12AT6	LCF200	5X9	M8245	8005
EL509	6KG6	HBC91	12AV6	LCF201	5U9	MV6/5	6SA7
EL802	6LD6	HCC85	17EW8	LCF801	5GJ7	N14	1C5
EL803	6CK6	HCH81	12AJ7	LCF802	6LX8	N15	305
EL820	6CJ6	HD14	1H5	LCH200	5V9	N16	305
EL821	6CH6	HD93	1X2	LCL80	4AB8	N17	3S4
EL822	6CH6	HD94	6BQ6	LCL82	11BM8	N18	304
EL861	6886	HD96	25B06	LCL84	10DX8	N19	3V4
ELF86	6HG8	HF93	12BA6	LCL85	10GV8	N25	3C4
ELL80	6HU8	HF94	12AU6	LCL200	11Y9	N47	6AM5
EN91	2D21	HK90	12BE6	LF183	4EH7	N77	6AM5
E080	6BE7	HL86	30CW5	LF184	4EJ7	N119	45B5
EY81	6R3	HL90	19A05	LF1200	11Y9	N144	6AM5
EY81F	6V3	HL92	50C5	LL86	10CW5	N152	21A6
EY86	6S2	HL94	30A5	LL500	18GB5	N153	15A6
EY87	6S2	HM04	6BE6	LL505	27KG6	N154	16A5

FOREIGN	AMERICAN	FOREIGN	AMERICAN	FOREIGN	AMERICAN	FOREIGN	AMERICAN	FOREIGN	AMERICAN
N155	6BN5	PC92	3AB4	PL505	40KG6	OS2406	12AT7		
N308	2SE5	PC95	4GK5	PL508	17KW6	QV03/12	5763		
N309	15A6	PC97	3FY5	PL509	40KG6	QV06/20	6146		
N329	16A5	PC900	4HA5	PL521	19K06	QV06/20B	6883		
N359	21A6	PCC84	7AN7	PL802	16LD6	QV06/20C	6159		
N369	16A8	PCC85	9A08	PL820	21A6	QW77	6C06		
N378	15CW5	PCC88	7DJ8	PLL80	12HU8	QZ77	6AM6		
N379	15CW5	PCC89	7FC7	PM04	6BA6	R52	5Z4		
N709	6B05	PCC186	7AU7	PM05	6AK5	R144	6AM6		
N727	6A05	PCC189	7ES8	PM07	6AM6	RS2	5Z4		
NCC189	4ES8	PCF80	9A8	PM95	6AK6	RS1029	6AM6		
NR67	6L7	PCF82	9U8	PY80	19X3	SN7	1B3		
NR78	6C5	PCF86	7HG8	PY81	17Z3	SP6	6AM6		
NR78A	6J5	PCF200	8X9	PY82	19Y3	T2M05	6J6		
NR81	6K7	PCF201	8U9	PY88	30AE3	TM12	6J4		
NR83	6J7	PCF801	8GJ7	PY93	17Z3	TS51	6AK5		
NR85	8F6	PCF802	9JW8	PY500	42EC4	TS52	6J6		
NR95	25L6	PCF805	7GV7	PY800	17Z3	TS229	5687		
NU20	5Y3	PCF806	8GJ7	PY801	17Z3	TS876C	12BY7		
OBC3	12S07	PCH200	9V9	QA2401	6C4	TTZ63	6J7		
OF1	6S7	PCL82	16A8	QA2404	6AL5	U2M70	6X4		
OF5	12K7	PCL84	15DQ8	QA2406	12AT7	U26	6S2		
OH4	12A8	PCL85	186V8	QA2407	6X4	U31	25Z4		
OM6	6K7	PCL86	146W8	QA2408	6SN7	U37	1T4		
OSW2190	6AC7	P0500	3ED4	QE03/10	5763	U49	6S2		
OSW2192	6AG7	PF9	6K7	QE05/40	6146	U50	5Y3		
OSW2600	6AC7	PF86	4HR8	QE05/40H	6159	U51	5V4		
OSW2601	6AG7	PFL200	16Y9	QL77	6C4	U52	5U4		
OSW3105	6SQ7	PH4	6A8	QM328	5686	U54	5R4		
OSW3106	6V6	PL36	25E5	QM556	6X4	U70	6X5		
OSW3108	6L6	PL81	21A6	QM557	6AK5	U74	35Z4		
OSW3109	6H6	PL82	16A5	QM558	6AS6	U76	35Z4		
OSW3111	6SK7	PL83	15A6	QM559	6AL5	U78	6X4		
OSW3112	6J5	PL84	15CW5	QOE03/12	6360	U82	7Y4		
PABC80	9AK8	PL86	14GW8	QOV03/10	6360	U119	38A3		
PC86	4CM4	PL500	27GB5	QS150/40	0D3	U147	6X5		
PC88	4DL4	PL504	28GB5	QS2404	5726	U149	7Y4		